

# Flamenco<sup>IP</sup>

## Data Sheet Catalogue

The next generation  
for perfect communication



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# Preliminary notes on Flamenco<sup>IP</sup>

## 1. Introduction

The Flamenco<sup>IP</sup> system is a universal communication platform for easy integration in a healthcare environment. It meets all demands coming from the healthcare organisation and is applicable for hospitals, nursing homes and comparable institutions.

Flamenco<sup>IP</sup> combines the nurse call functionality with modern IT and communication needs. It supports any kind of organisation and work-flow methods in a modern and easiest way. The system technology is self-observed and provide a high reliability data and voice communication using the network infrastructure. The system is fully logically structured and can be organised to 100% independent from any physical installation. This provides the freedom for the care management to organise the patients, rooms, wards, and the whole care building as needed. It easily can be changed as often as required and in a simple way using "drag and drop".

The system can expanded every time, without any limits in terms of number of patients, rooms or organisational groups as well as the size of the care building.

The excellent speech quality based on state of the art technology, give a huge benefit to the organisation saving time and cost for the overall care and organisational processes.

The system provides a wide range of interfaces to adapt and/or integrate other systems and solutions. This results in a high flexibility to shape the system and organisation work-flow as required.

Overall, each system set-up can be tailored to the customer demand.

## 2. Standards

The Flamenco<sup>IP</sup> nurse call system is developed in accordance the quality rules ISO 9001. All products are CE marked, fulfilling the related EMC and safety standards.

The nurse call system complies with the high standard of the current DIN VDE 0834.

This guarantees a high reliable and save system in all its operation and environmental conditions.

## 3. System layout

The Flamenco<sup>IP</sup> system design is structured hierarchically. In the rooms, all related devices are connected to a bus-based network, RAN (Room Area Network). This intelligent bus combines an easy installation with intelligent and self controlled communication.

The room function is independent from the backbone and works on its own, even if the overall network failed. All connected devices are equipped with an intelligent controller and communicate with each other. The installation in the room could be structured as bus, star, mesh, or a mix of it.

The room bus with all its devices is connected to the room terminal, which is working as a gateway to the dedicated OSYnet infrastructure. The next hierarchical level is the OSYnet network, where all ward related devices are connected to. The gateways from the room terminals are connected to the IP-System-Manager, using the OSYnet infrastructure.

The IP-SystemManger with an installed system module HEALTH or CARE provides a full nurse call system with its basic functions, for one physical ward. Several IP-SystemMangers are connected to a system using an IP network infrastructure. This can be a dedicated network for the nurse call system or a part of an already existing IP infrastructure.

## 4. System safety

The safety concept for Flamenco<sup>IP</sup> is based on a self-sufficient and independent system platform. Single rooms in a ward combined to an organisational unit and controlled by the IP-SystemManger. This provides a high secure environment where a single failure cannot break down the whole system.

In case of a fault or failure of systems or components which are linked via interfaces, the basic functions of the nurse call system will be sustained. The functional safety is applicable for the whole system and not limited to ward related functions. In a worst case situation, a call will solely activate the room lamp. All system data permanently secured against any mains supply failure, and configuration data are redundantly saved in the system.

Each IP-SystemManger operates independently and several IP-SystemManagers can be combined to a

system via an IP network. The overall communication is permanently monitored which provides a high sufficient system and safety performance.

## Note on the responsibility of the operator

It is the sole responsibility of the operator to provide and continuously ensure a secure connection between the nurse call system products and the network. The operator shall establish and maintain any appropriate measures (such as but not limited to the installation of firewalls, application of authentication measures, encryption of data, installation of anti-virus programs, etc) to protect the products, the network, the system and the interfaces against any kind of security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or information. Tunstall GmbH is not liable for damages and/or losses related to such security breaches, any unauthorized access, interference, intrusion, leakage and/or theft of data or information.

## 5. Care management work-flow

Independent from the physical installation within the room and/or the entire network, all rooms can be assigned to organisational groups of rooms. This allows a free and virtually allocation of any room and following the care organisation demands.

Any kind of organisation form can be configured, i.e. de-centralised, centralised or a combination of both. The organisation rules of the system can be changed all the time. A modern configuration tool, the SystemOrganizer, enables an easy drag and drop configuration, local configuration or via remote access.

The flexible grouping of rooms and the dynamic work-flow management provide the freedom to follow upcoming demands on a daily basis.

## 6. Cables

For the installation within the rooms and in the ward up to the IP-SystemManager, standard communication cables can be used, e.g. 1Y(ST)Y 4x2x0.8 mm. Alternatively, data cables for networks can be used, e.g. CAT7 (22 AWG).

For the backbone between the IP-SystemManagers, standard IP network infrastructure installation is required.

Electric power to all components within the ward including interfaces, displays, and the IP-SystemMan-

ager is provided by a dedicated 24 VDC power supply unit.

## 7. Installation and mounting

The devices are mounted in commercially available back boxes. This feature allows to facilitate any change of individual products at a later stage, particularly inside of rooms. The products are supplied as plug-and-play devices and they require no additional assembly or mounting work. All devices feature plug-in connections which again facilitates any later exchange of such devices

## 8. Peripheral devices

The devices for the rooms are designed for plug-and-play use. Switches and patient devices feature protection class IP54, and as such, they easily can be cleaned and disinfected. Due to the colour and design of the devices, they are easily identified as parts of the nurse call system, which gives more convenience and secure operation. Largely dimensioned buttons for the nursing staff ensure save and positive use in any situation. All signalling devices are fitted with long-life LEDs. The room lamp can be fitted with a decorative frame to match the general interior decoration of the hospital. Design and structure are unique and subject to intellectual property rights.

## 9. Patient devices

The control devices are specifically designed to best meet the demands of patients and nursing staff as well. What distinguishes these devices are simple handling, easy cleaning and disinfecting as well as their suitability for rough every-day-use. There are several versions to suit virtually any needs.

Aside from Tunstall devices, other 3rd party devices may also be used and integrated into the overall system layout. The open concept allows for use of many other peripheral devices from other suppliers, e.g. simple patient telephones with integrated nurse call, LED TV sets or comfort units with hands-free speech and other special functions. The functions of the original nurse call system will not be affected by this integration. This unique arrangement ensures a high functional reliability of the overall system also in case of faults or interference in the telecommunication system.

To expand the basic nurse call system, various functions can be adapted or integrated



## Examples (extract)

- Dim out or switch lights for different lightings
- Control bedside TV via dedicated interfaces
- Control standard TV via infrared signal
- Connection of external sensors, e.g. sensor mats
- Control roller blinds or similar equipment

## 10. Ward consoles

Ward consoles are available with a variety of performance features placed at the nurse station.

### ComStation<sup>CT</sup>

A simple desktop ComTerminal with the functions of a room terminal plus zone nursing, ward coupling and fault messages. Plug connection to the group bus OSYnet via a connection socket.

### ComStation<sup>BUS-C</sup>

A ward console with all functions for the handling of calls, actuating of announcements and for organisational tasks. Plug connection to the group bus OSYnet via a connection socket.

### ComStation<sup>PC</sup>

A ward console as a PC workstation with the management software PrimusGlobal+. Separate speech unit for maximum speech comfort and quality. Plug connection to the group bus OSYnet via a connection socket.

## 11. Interfaces

The Flamenco<sup>IP</sup> system features a substantial amount of interfaces. There is a wide range of OSYlink modules to connect I/O contacts to/from other systems. The system can be expanded with OSYlink modules at any time. It covers outputs for additional group or direction lamps, connecting announcements loudspeakers and many more.

Data exchange with other systems can be done directly using the IP network infrastructure or via serial interfaces or simple contact modules.

Depending on the use, the communication to other systems is directly connected to a local IP-System-Manager or via an additional central IP-System-Manager.

The available interfaces can be used for different applications. Each IP-SystemManager can be expanded with various software modules.

Coupling with private automatic branch exchanges (PABX) and messaging services is supported as well. A wide range of different applications are available.

The transparent system structure allow for digital SIP/VoIP connections or simple messaging.

## Examples for interfaces (extract)

- Linking to private automatic branch exchanges (PABX)
- Data output to facility management system
- Linking to fire detection systems
- Linking to telemetric/range systems

Other interfaces are possible to provide.

## 12. System maintenance

The use of plug-and-play technology, particularly in room environments, facilitates system maintenance - and it is a definite cost-saving factor. No special know-how nor any special tools are required when replacing individual components or assemblies.

The complete system is permanently monitored and can be served from a central location. The location and type of failure can be recognised easily. This may be on-site location or via remote access.

A specially developed software tool, the SystemOrganizer, is provided for the system configuration. This software can be used during the system planning as well. The user is in a position to change and modify any setting at the system to adapt the system to the specific demands of the project and work-flows. Access to the system is available at different levels using the appropriate login and user passwords. This avoid changing system parameters inadvertently.

## 13. System expansion

The system function and features of Flamenco<sup>IP</sup>, can be updated and expanded at every time, if a new feature-set or a maintenance update is available. This includes the system core and the application software for various devices. Additional products can be added to the system and changes to the system setup and configuration can be implemented all the time as well.

## Example for system extensions

- Wireless sensors and call devices from the Tunstall portfolio
- Comprehensive accessories of special alarm sensors
- Call recording and documentation of all system events
- Various interfaces to 3<sup>rd</sup> party solutions
- Software modules for different applications

## 14. Compatibility

Special features enable the Flamenco<sup>IP</sup> system to be used in the renewal and updating of existing installations. The system does not require extensive cabling, and in many cases, the existing infrastructure in a building, can be used to support Flamenco<sup>IP</sup>. This includes current cabling as well as already installed back boxes. Simple I/O modules are available for coupling other 3<sup>rd</sup> party systems.

A wide range of mounting elements and special interfaces are provided to link Flamenco<sup>IP</sup> with previous Tunstall systems and installations. This intelligent concept allows to combine various system generations in one system.

## 15. Services

In addition to the implemented tools for maintaining the system, additional services can be provided with costs.

- Guidance for planning and system design
- Customer specific configuration
- Remote access for additional services
- Remote update and upgrade of the system function and feature-set
- Remote fault analysis
- Software licence management

Additional managed services on request.

## 16. Software modules, usage rights

The Flamenco<sup>IP</sup> system can be equipped with all basic functions of a nurse call system in accordance with the German standard DIN VDE 0834. For this various

software modules are available as system modules and function modules. This modules are installed on the IP-SystemManagers.

In order to keep the system and the software modules up-to-date, it is mandatory to conclude a software maintenance contract for all system and function modules installed. The annual costs include the usage rights and a regular software maintenance in the form of security updates to ensure system integrity.

## 17. Summary

Flamenco<sup>IP</sup> is a modern, flexible communication system with the "future built in", i.e. it can be adapted to the ever changing and increasing demands of today's nursing organisations. Even where a complex integration with other systems is realised, the nurse call system as such will remain to serve as a self-sufficient and independent instrument for patients and staff.

All components of such a complex system structure, can be serviced, updated, modernised and replaced by other, more advanced solutions if required. This feature ensures the required high functional safety and prevents possible negative interactions or interference with or from subordinate or parallel systems.

In case of faults or failures in telecommunication systems, data networks, TV installations or at other interfaces, the function of the nurse call system will be sustained. Flamenco<sup>IP</sup> provides for maximum freedom in planning, it is a safe capital investment, and its performance is future-oriented, indeed.

The open architecture allows for further adaptation and integration of additional solutions, i.e. mobile devices used for additional services around the care management and work flow.

# Loudspeaker with announcement interface

05 0024 01



## General description

Big, high efficiency, ceiling-mounted loudspeaker. For mounting in hallways and large rooms.

## Specification

- 200 mm broad band chassis
- Mounting via spring clamps
- 2-pole ceramic connector
- Adjustable amplifier for announcements
- Transducer for entertainment transmission

## Technical data (electrical)

|                                   |                |
|-----------------------------------|----------------|
| Power:                            | 10/6/3/1.5 W   |
| Frequency range:                  | 243 – 19700 Hz |
| SPL 1 W / 1 m, peak:              | 102.9 dB       |
| SPL 1 W / 4 m, peak:              | 90.9 dB        |
| SPL P <sub>max</sub> / 4 m, peak: | 100.9 dB       |
| Power supply:                     | 24 V DC        |
| Standby current:                  | 80 mA          |

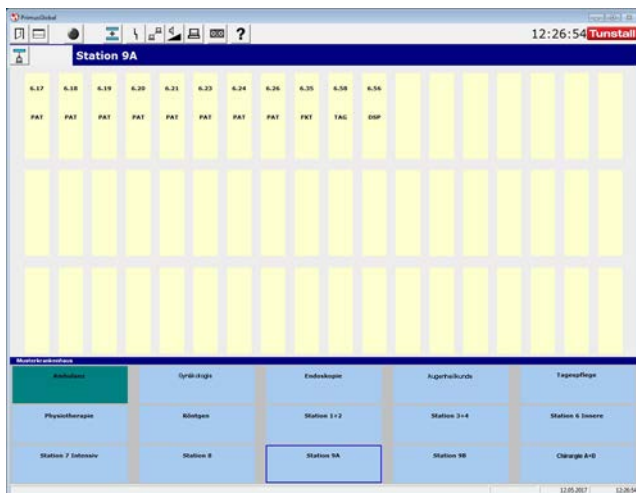
## Technical data (mechanical)

|                    |                      |
|--------------------|----------------------|
| Diameter:          | 268 mm               |
| Height:            | 138 mm               |
| Weight:            | approx. 2.4 kg       |
| Ceiling cut-out:   | 243 mm               |
| IP rating:         | IP21                 |
| Temperature range: | -20 to +80 °C        |
| Material:          | Metal                |
| Colour:            | RAL 9010, pure white |

| Order number   | Product name                            | Notes                      |
|--|---|----------------------------|
| 05 0024 01   | Loudspeaker with announcement interface |                            |
| <b>Optional accessories, may be ordered if required:</b> |   |                            |
| 00 0272 48   | Steel loudspeaker frame                 | see appendix „accessories“ |

# PrimusGlobal module Building Services

45 1400 00



## General description

The PrimusGlobal software family effectively complements the Flamenco nurse call system. The module Building Services is a supplement to the basic package.

To support the building services an information service displays all nurse call system events. Graphical interface using block graphics.

## Specification

- Displayed data are taken from the nurse call system
- Visualisation in block graphics
- Parallel display of system messages, system status, and fault messages

## System requirement

- Existing installation of PrimusGlobal+ „Call recording“, e.g. as Call recording Flamenco, complete set.

| Order number                                 | Product name                                | Notes                      |
|--|---|----------------------------|
| 45 1400 00                                   | PrimusGlobal module Building Services       |                            |
| <b>System requirement, order separately:</b> |   |                            |
| 50 1027 10                                   | Call recording Flamenco, complete set       | see appropriate data sheet |
| <b>Required service, order separately:</b>   |   |                            |
| 77 0790 00                                   | PrimusGlobal+ System set-up & configuration | see appendix „services“    |

# Call recording Flamenco, complete set

50 1027 10



## General description

The complete set Call Recording Flamenco is used to support the care documentation. All call data, staff registrations and system events are recorded. Data storage is effected with date, time plus relevant information as to the data source such as ward and room.

Filtering and sorting of data can be selected for numerous combinations of criteria. For succeeding post-processing and analysis there is an export function to convenient office applications.

Connection to the nurse call system's IP network.

## Components

- System computer (order no. 80 6010 00D)
- LCD monitor 19" (order no. 80 6049 00)
- UPS 600 VA/360 W (order no. 21 9000 00)
- PrimusGlobal+ „Call recording“ (order no. 77 0710 00)

## Features

- Permanent recording of all system events
- Selection of locations (wards, rooms, etc.) to analyse
- Filtering data according to event time
- Filtering data according to event type (calls, presences, other events)
- Filtering data according to actions taken
- Selection of parameters for display
- Sorting the data
- Print feature
- Export feature to convenient office packages, CSV format.

## Software maintenance contract

The acquiring of the system software PrimusGlobal+ is combined with placing of a software administration contract with costs. The administration contract is an important prerequisite for an optimal and long-term use of the user software.

Scope of services:

- Regular updates of PrimusGlobal+ software
- Revisions in configuration and adaptations to ongoing developments
- Remote maintenance: Comfortable error analysis and correction online
- Telephone hotline during business hours of Tunstall GmbH

| Order number | Product name                          | Notes            |
|--------------|---------------------------------------|------------------|
| 50 1027 10   | Call recording Flamenco, complete set | English language |

# Universal sensor

*for use with radio receiver-T and -T UP*

**61005/30**



## Basic properties

- Radio range depending on the building structure:
  - to home unit: up to 50 m
  - to radio receiver-T or -T UP: up to 30 m
  - to CareAssist: up to 50 m
- Four buttons and an LCD screen for easy configuration.
- Battery operation
- Expected life of the replaceable battery is approximately 5 years under normal conditions.
- Signalling when the battery of the universal sensor is low:
  - The home unit automatically triggers a background call to the monitoring centre.
  - The LED on the radio receiver-T or -T UP flashes red.
  - The CareAssist alerts the user with a transmitter battery low message

## General description

Universal sensor for use with the following Tunstall products:

- All current home units
- All radio receivers-T and -T UP
- CareAssist

## Available operating modes

- Forwarding the alarms of wired telecare sensors
- Use as door guard for call activation
- Use as door contact for event message
- Use as bed/chair occupancy sensor for call activation
- Use as virtual bed sensor for event message

The universal sensor is configured for the desired operating mode using four built-in buttons and an LCD screen.

## Forwarding the alarms of wired telecare sensors

- This operating mode is available with home units, radio receiver T and -T UP, CareAssist
- Normally closed and normally open contacts (potential free) can be connected
- Connection to the free wire ends of the 195 cm long connection cable with RJ11 plug. Connection to the 3.5 mm jack socket as an option.

# Universal sensor

*for use with radio receiver-T and -T UP*

**61005/30**

**- Page 2 -**



- The universal sensor is able to transmit the following call types to home units and to the CareAssist:
  - CO detected
  - Enuresis
  - Epilepsy
  - Natural gas
  - Pendant (personal trigger) activated
  - Smoke detected
- Attention! Radio receivers-T and -T UP forward calls from the universal sensor without specifying the call type. The call type displayed in the nurse call system depends on the setting of the nurse call system.
- The universal sensor will be assigned to the home unit incl. the set call type via Plug&Play

## Use as door guard for call activation

- This operating mode is available with home units. It is not available with radio receiver T, -T UP or CareAssist
- The magnetic contacts delivered with the universal sensor are used and connection to the RJ11 input.
- A property exited alarm is generated when the door is opened.

## Use as door contact for event message

- This operating mode is available with home units supporting the virtual property exit feature, e.g. Lifeline Vi+.
- This operating mode is not available with radio receiver T, -T UP or CareAssist
- Usage for monitoring the well-being, to indicate the door open/close activity.
- The magnetic contacts delivered with the universal sensor or the built-in reed switch are used
- When the door is opened an event message „door opened“ will be generated. No call activation.
- When the door is closed an event message „door closed“ will be generated. No call activation.

## Use as bed/chair occupancy sensor for call activation

- This operating mode is available with home units as well as with radio receiver T and -T UP. This operating mode is not available with CareAssist.
- Bed pad or chair pad required as accessory
- The pad is connected to the RJ11 socket of the universal sensor
- An alarm is generated if a user has got out of their bed/chair during a monitoring time window (e.g. night) and has not returned within the pre-configured absence time period.
- An alarm is generated, is not in bed by a pre-configured time.
- An alarm is generated, is not out of bed by a pre-configured time.

# Universal sensor

for use with radio receiver-T and -T UP

61005/30

- Page 2 -



- Usage for monitoring the well-being, to indicate the sleep pattern.
- Bed pad or chair pad required as accessory
- The pad is connected to the RJ11 socket of the universal sensor
- When the user has got in bed an event message „in bed“ will be generated. No call activation.
- When the user has got out of bed an event message „out of bed“ will be generated. No call activation.

## Technical data

|                                   |                 |
|-----------------------------------|-----------------|
| Dimensions (HxWxD):               | 80 x 50 x 25 mm |
| Weight (incl. battery):           | 75 g            |
| Connection cable:                 | approx. 200 cm  |
| Magnet dimensions (HxWxD):        | 68 x 15 x 12 mm |
| Magnet switch dimensions (HxWxD): | 68 x 15 x 12 mm |
| Housing colour:                   | white           |
| Battery type:                     | AA, 3.6 V       |
| Radio frequency:                  | 869.2125 MHz    |
| Ambient temperature:              |                 |
| - Operation:                      | 0 °C to 45 °C   |
| - Storage, transport:             | -10 °C to 50 °C |

## Use as virtual bed sensor for event message

- This operating mode is available with home units supporting the virtual occupancy sensor feature, e.g. Lifeline Vi+.
- This operating mode is not available with radio receiver T, -T UP or CareAssist

| Order number                                    | Product name        | Note                                       |
|---|---------------------|--|
| 61005/30  | Universal sensor    |  |
| <b>Use with radio receiver:</b>                 |                     |  |
| Z 00 8202 33                                    | Radio receiver-T    | for connection socket 700xxxxx             |
| Z 00 8202 35                                    | Radio receiver-T UP |  |
| <b>Necessary accessories, order separately:</b> |                     |  |
| D4106009A                                       | Bed pad             | For single bed. 2 required for double bed. |
| D4106010A                                       | Chair bed           |  |



# Optical 869 Smoke Alarm

for use with radio receiver-T and -T UP

68005/70



- to radio receiver-T or -T UP: up to 30 m
- to CareAssist: up to 50 m

- Battery operation - no wiring
- Built-in 3V lithium battery for 10 years long-term power supply
- When the battery of the smoke alarm is low an acoustic warning sounds on the smoke alarm and:
  - The home unit automatically triggers a background call to the monitoring centre.
  - The LED on the radio receiver-T or -T UP flashes red.
  - The CareAssist alerts the user with a transmitter battery low message
- Easy press button for testing and mute
- Dismantling protection
- Accredited according to DIN EN 14604:2009

## General description

Smoke alarm for wireless triggering of emergency calls in case of smoke development. Smoke detection is based on the scattered light principle. The smoke alarm transmits the smoke alarm by radio to the assigned emergency call device and emits an acoustic signal in parallel.

## Specification

- Use with the following Tunstall products:
  - All current home units
  - All radio receivers-T and -T UP
  - CareAssist
- Loud acoustic signal for smoke detection
- Regular self-tests of smoke detection. Errors are indicated by an alarm signal on the smoke detector (LED and signal tone).
- Radio range depending on the building structure:
  - to home unit: up to 50 m

## Technical data

|                      |                              |
|----------------------|------------------------------|
| Dimensions (HxØ):    | 51 x 115 mm                  |
| Weight:              | approx. 185 g                |
| Housing material:    | Polystyrene                  |
| Housing colour:      | white                        |
| Signal tone:         | >85 dB (A) at 3 meters       |
| Max. monitored area: | 60 m <sup>2</sup>            |
| IP code:             | IP20                         |
| Battery:             | 3 V Lithium battery          |
| Battery life:        | 10 years                     |
| Smoke detector life: | 10 years                     |
| Radio frequency:     | 869.2125 MHz                 |
| Ambient temperature: | -10 °C to +40 °C             |
| Relative humidity:   | 15 % – 95 %, no condensation |

| Order number                    | Product name         | Note                           |
|---------------------------------|----------------------|--------------------------------|
| 68005/96                        | Radio smoke detector |                                |
| <b>Use with radio receiver:</b> |                      |                                |
| Z 00 8202 33                    | Radio receiver-T     | for connection socket 700xxxxx |
| Z 00 8202 35                    | Radio receiver-T UP  |                                |

# Heat Alarm 869

for use with radio receiver-T and -T UP

68005/71



- Radio range depending on the building structure:
  - to home unit: up to 50 m
  - to radio receiver-T or -T UP: up to 30 m
  - to CareAssist: up to 50 m
- Battery operation - no wiring
- Built-in 9V lithium battery for 10 years long-term power supply
- When the battery of the heat alarm is low an acoustic warning sounds on the heat alarm and:
  - The home unit automatically triggers a background call to the monitoring centre.
  - The LED on the radio receiver-T or -T UP flashes red.
  - The CareAssist alerts the user with a transmitter battery low message
- Easy press button for testing and test alarm
- Dismantling protection

## General description

Heat alarm for wireless triggering of calls as soon as the room temperature in the detection zone of the heat alarm has reached 58 °C. The heat alarm transmits the alarm by radio to the assigned radio receiver and emits an acoustic signal in parallel.

Heat alarms are recommended for the installation in kitchens, boiler rooms, garages and other rooms, where is normally a high level of vapours, smoke and dust. In these rooms, smoke alarms are unsuitable because they would often trigger false alarms.

## Specification

- Use with the following Tunstall products:
  - All current home units
  - All radio receivers-T and -T UP
  - CareAssist
- Loud acoustic signal for heat detection

## Technical data

|                         |   |
|-------------------------|---|
| Dimensions (HxØ):       | 55 x 115 mm                                 |
| Weight:                 | 200 g                                       |
| Housing colour:         | white                                       |
| Sensor type:            | fast-response temperature sensor (class A1) |
| Signal tone:            | >85 dB (A) at 3 meters                      |
| Maximum monitored area: | 60 m <sup>2</sup>                           |
| Degree of protection:   | IP20  |
| Battery:                | 9 V lithium battery                         |
| Battery life:           | 10 years                                    |
| Radio frequency:        | 869.2125 MHz                                |
| Ambient temperature:    |   |
| - Operation:            | 0 °C bis +40 °C                             |
| - Storage:              | -10 °C bis +60 °C                           |
| Relative humidity:      | 15 % – 95 %, no condensation                |

| Order number                    | Product name            | Notes                          |
|---------------------------------|-------------------------|--------------------------------|
| 68005/71                        | Optical 869 Smoke Alarm |                                |
| <b>Use with radio receiver:</b> |                         |                                |
| Z 00 8202 36                    | Radio receiver-T        | for connection socket 700xxxxx |
| Z 00 8202 35                    | Radio receiver-T UP     |                                |

# Connection socket with call switch, bedhead unit

70 0171 50



## General description

Connection socket including 2 sockets for the connection of call devices, e.g. pear push switch.

Designed for mounting in medical supply unit. Backside mounting.

One call button for patient and staff use complete with integrated reassurance light. The reassurance light illuminates upon activation of a call.

The special design indicates the connection socket also optically as part of the nurse call system.

## Specification

- 1 red call button with reassurance light and integrated night location light
- 2 identical sockets for the connection of pear push switches or similar equipment
- 1 backside connection to an additional call button with location and reassurance light. Normally closed or normally open contact can be set by DIP switch
- Integrated disconnection call
- Bed identification
- Plug installation for easy mounting
- Standard set to channel 0
- 2 switching outputs for light switching: 24 V DC, 200 mA max.
- Integrated electronic processor for connection to the room bus (RAN)

## Technical data

|                     |                                   |
|---------------------|-----------------------------------|
| Dimensions (HxWxD): | 70.5 x 70.5 x 41 mm               |
| Colour:             | Studio white, similar to RAL 9016 |
| Material:           | Polycarbonate                     |

| Order number   | Product name                                     | Notes                               |
|--|--|-------------------------------------|
| 70 0171 50   | Connection socket with call switch, bedhead unit | as described above                  |
| <b>Necessary accessories, order separately:</b>          |  |                                     |
| 00 0211 37   | Connector, 5-pole                                | see appendix „accessories“          |
| <b>Optional accessories, may be ordered if required:</b> |  |                                     |
| 50 0308 02   | Connection cable                                 | for additional external call device |
| 19 9102 40   | Button cap white, call button                    | see appendix „accessories“          |

# Connection socket with call switch

70 0171 60...



70 0171 60 A

## General description

Connection socket including 2 sockets for the connection of call devices, e.g. pear push switch.

Designed for wall mounting.

One call button for patient and staff use complete with integrated reassurance light. The reassurance light illuminates upon activation of a call.

The special design indicates the connection socket also optically as part of the nurse call system.

## Specification

- 1 red call button with reassurance light and integrated night location light
- 2 identical sockets for the connection of pear push switches or similar equipment
- 1 backside connection to an additional call button with location and reassurance light. Normally closed or normally open contact can be set by DIP switch
- Integrated disconnection call
- Bed identification
- Plug installation for easy mounting
- Standard set to channel 0
- 2 switching outputs for light switching: 24 V DC, 200 mA max.
- Integrated electronic processor for connection to the room bus (RAN)
- Attractive design frame

## Technical data

Colour: Studio white, similar to RAL 9016  
 Material: Polycarbonate

| Order number   | Product name                       | Notes   |
|--|------------------------------------|---|
| 70 0171 60 A   | Connection socket with call switch | Dimensions (HxWxD): 91 x 91 x 41 mm                                       |
| 70 0171 60 C   | Connection socket with call switch | Design frame made of white glass<br>Dimensions (HxWxD): 107 x 107 x 41 mm |
| 70 0171 60 F   | Connection socket with call switch | Dimensions (HxWxD): 80 x 80 x 41 mm                                       |
| <b>Necessary accessories, order separately:</b>          |                                    |   |
| 17 0100 00   | Back box solid wall, 1-gang        | see appendix „accessories“  |
| 17 5100 00   | Back box partition wall, 1-gang    | see appendix „accessories“  |
| 00 0211 37   | Connector, 5-pole                  | see appendix „accessories“  |
| <b>Optional accessories, may be ordered if required:</b> |                                    |   |
| 50 0308 02   | Connection cable                   | for additional external call device                                       |

# Equipment and cable clamp

**70 0361 00**



## General description

Practical protection for all patient units. Cables and equipment are safely guided along the bed supporting rod or the "bed gallows".

No damage due to patients trying to use the sophisticated equipment as an aid for pulling themselves up. Under excessive force the clamp will slip off the supporting rod.

## Specification

- Various means for securing different diameters of cables
- Suitable for use with cables or hoses of 4, 5, 6 and 9 mm diameter (e.g. pear push switch, patient handset, listening tube)
- 2 equipment and cable clamps can be put together for doubling the retention force

## Technical data

|             |  |
|-------------|--|
| Dimensions: | max. height: 160 mm<br>max. thickness: 18 mm<br>Width: 70 mm |
| Weight:     | 23 g   |
| Colour:     | RAL 7035 light grey  |
| Material:   | ABS  |

| Order number | Product name              | Notes              |
|--------------|---------------------------|--------------------|
| 70 0361 00   | Equipment and cable clamp | as described above |

# Connection socket combi

*Papyrus white*

**70 0424 00**



## General description

Combined connection socket with two different sockets for connection of patient units and/or call devices.

Intended for the following functions: transmission of calls, control of 2 light sources, TV transmission, transmission of entertainment programmes or as an option control of an external actuator (e.g. blinds control).

Preferably designed for wall mounting.

## Specification

- 2 different sockets for use either individually or simultaneously
- 1 socket for connection of a patient handset, 13-pole
- 1 socket for connection of a call device, 8-pole (e.g. pear push switch)
- Integrated disconnection call
- The two outputs for light control provide a 24 V signal for the length of time the light switch on the patient handset or pear push switch incl. call and light switch remains pressed. The outputs may be loaded with 60 mA.
- The dimming feature requires suitable dimmable ballasts, e.g. with DALI interface.
- Connection possibility for 5 entertainment programmes or alternatively control of an external actuator
- In case of control of an external actuator (e.g. blinds control), transmission of the control signals via RAN interface universal, order no. 70 0848 00. ]
- Connection for TV tone
- TV control in combination with RAN interface, order no. 77 0840 00.
- TV tone / entertainment input: 25 V<sub>eff</sub>
- Standard set to channel 3 (i.e. bed 3)
- Plug-in terminals 0.55 – 1 mm Ø
- Coding switch for setting the bed number

## Technical data

Dimensions (HxWxD): 90 x 181 x 10 mm  
 Colour: RAL 9018 papyrus white  
 Material: ABS

| Order number                                    | Product name                    | Notes                      |
|---|---------------------------------|----------------------------|
| 70 0424 00                                      | Connection socket combi         | as described above         |
| <b>Necessary accessories, order separately:</b> |                                 |                            |
| 17 0410 00                                      | Back box solid wall, 2-gang     | see appendix „accessories“ |
| 17 5400 00                                      | Back box partition wall, 2-gang | see appendix „accessories“ |

# Connection socket combi, TVL

*Papyrus white*

**70 0424 50**



## General description

Combined connection socket with two different sockets for connection of patient units and/or call devices.

Intended for the following functions: transmission of calls, control of 2 light sources, TV transmission, transmission of entertainment programmes or as an option control of an external actuator (e.g. blinds control).

Preferably designed for wall mounting.

**Use this connection socket only, if TV is connected via IR TV control module Audio (order no. 70 0360 11).**

## Specification

- 2 different sockets for use either individually or simultaneously
- 1 socket for connection of an ePat<sup>®</sup>lite or a patient handset, 13-pole
- 1 socket for connection of a call devices, 8-pole (e.g. pear push switch)

- Integrated disconnection call
- The two outputs for light control provide a 24 V signal for the length of time the light switch on the ePat<sup>®</sup>lite, patient handset or pear push switch incl. call and light switch remains pressed. The outputs may be loaded with 60 mA.
- The dimming feature requires suitable dimmable ballasts, e.g. with DALI interface.
- Connection possibility for 5 entertainment programmes
- Connection possibility for blinds control
- Entertainment and blinds control are available with ePat<sup>®</sup>lite. Entertainment or blinds control are available with patient handset.
- In case of blinds control transmission of the control signals via RAN interface universal, order no. 70 0848 00.
- Connection for TV tone
- TV control in combination with RAN interface, order no. 77 0840 00.
- Entertainment input: 25 V<sub>eff</sub>
- TV tone input: 5 V<sub>eff</sub>
- Standard set to channel 3 (i.e. bed 3)
- Plug-in terminals 0.55 – 1 mm Ø
- Coding switch for setting the bed number

## Technical data

Dimensions (HxWxD): 90 x 181 x 10 mm  
 Colour: RAL 9018 papyrus white  
 Material: ABS

| Order number                                    | Product name                    | Notes                      |
|---|---------------------------------|----------------------------|
| 70 0424 50                                      | Connection socket combi, TVL    | as described above         |
| <b>Necessary accessories, order separately:</b> |                                 |                            |
| 17 0410 00                                      | Back box solid wall, 2-gang     | see appendix „accessories“ |
| 17 5400 00                                      | Back box partition wall, 2-gang | see appendix „accessories“ |

# Connection socket combi

Studio white

70 0425 00



## General description

Combined connection socket with two different sockets for connection of patient units and/or call devices.

Intended for the following functions: transmission of calls, control of 2 light sources, TV transmission, transmission of entertainment programmes and blinds control.

Preferably designed for wall mounting.

## Specification

- 2 different sockets for use either individually or simultaneously
- 1 socket for connection of an ePat<sup>®lite</sup> or patient handset, 13-pole
- 1 socket for connection of a call device, 8-pole (e.g. pear push switch)
- Integrated disconnection call

- The two outputs for light control provide a 24 V signal for the length of time the light switch on the ePat<sup>®lite</sup>, patient handset or pear push switch incl. call and light switch remains pressed. The outputs may be loaded with 60 mA.
- The dimming feature requires suitable dimmable ballasts, e.g. with DALI interface.
- Connection possibility for 5 entertainment programmes
- Connection possibility for blinds control
- Entertainment and blinds control are available with ePat<sup>®lite</sup>. Entertainment or blinds control are available with patient handset.
- In case of blinds control transmission of the control signals via RAN interface universal, order no. 70 0848 00.
- Connection for TV tone
- TV control in combination with RAN interface, order no. 77 0840 00.
- TV tone / entertainment input: 25 V<sub>eff</sub>
- Standard set to channel 3 (i.e. bed 3)
- Plug-in terminals 0.55 – 1 mm Ø
- Coding switch for setting the bed number

## Technical data

|                     |                                   |
|---------------------|-----------------------------------|
| Dimensions (HxWxD): | 90 x 181 x 10 mm                  |
| Colour:             | Studio white, similar to RAL 9016 |
| Material:           | Polycarbonate                     |

| Order number                                    | Product name                          | Notes                      |
|---|---------------------------------------|----------------------------|
| 70 0425 00                                      | Connection socket combi, Studio white | as described above         |
| <b>Necessary accessories, order separately:</b> |                                       |                            |
| 17 0410 00                                      | Back box solid wall, 2-gang           | see appendix „accessories“ |
| 17 5400 00                                      | Back box partition wall, 2-gang       | see appendix „accessories“ |



# Connection socket combi, TVL

**70 0425 50**



## General description

Combined connection socket with two different sockets for connection of patient units and/or call devices.

Intended for the following functions: transmission of calls, control of 2 light sources, TV transmission, transmission of entertainment programmes and blinds control. Preferably designed for wall mounting.

**Use this connection socket only, if TV is connected via IR TV control module Audio (order no. 70 0360 11).**

## Specification

- 2 different sockets for use either individually or simultaneously
- 1 socket for connection of an ePat<sup>®</sup>lite or patient handset, 13-pole
- 1 socket for connection of a call devices, 8-pole (e.g. pear push switch)
- Integrated disconnection call

- The two outputs for light control provide a 24 V signal for the length of time the light switch on the ePat<sup>®</sup>lite, patient handset or pear push switch incl. call and light switch remains pressed. The outputs may be loaded with 60 mA.
- The dimming feature requires suitable dimmable ballasts, e.g. with DALI interface.
- Connection possibility for 5 entertainment programmes
- Connection possibility for blinds control
- Entertainment and blinds control are available with ePat<sup>®</sup>lite. Entertainment or blinds control are available with patient handset.
- In case of blinds control transmission of the control signals via RAN interface universal, order no. 70 0848 00.
- Connection for TV tone
- TV control in combination with RAN interface, order no. 77 0840 00.
- Entertainment input: 25 V<sub>eff</sub>
- TV tone input: 5 V<sub>eff</sub>
- Standard set to channel 3 (i.e. bed 3)
- Plug-in terminals 0.55 – 1 mm Ø
- Coding switch for setting the bed number

## Technical data

Dimensions (HxWxD): 90 x 181 x 10 mm  
 Colour: Studio white, similar to RAL 9016  
 Material: Polycarbonate

| Order number                                    | Product name                               | Notes                      |
|---|--|----------------------------|
| 70 0425 50                                      | Connection socket combi, TVL, Studio white | as described above         |
| <b>Necessary accessories, order separately:</b> |  |                            |
| 17 0410 00                                      | Back box solid wall, 2-gang                | see appendix „accessories“ |
| 17 5400 00                                      | Back box partition wall, 2-gang            | see appendix „accessories“ |

# Connection socket combi, bedhead unit

*Papyrus white*

**70 0434 00**



## General description

Combined connection socket with two different sockets for connection of patient units and/or call devices.

Intended for the following functions: transmission of calls, control of 2 light sources, TV transmission, transmission of entertainment programmes and blinds control.

Preferably designed for mounting in medical supply units.

## Specification

- 2 different sockets for use either individually or simultaneously
- 1 socket for connection of an ePat<sup>®</sup>lite or patient handset, 13-pole
- 1 socket for connection of a call device, 8-pole (e.g. pear push switch)
- Integrated disconnection call

- The two outputs for light control provide a 24 V signal for the length of time the light switch on the ePat<sup>®</sup>lite, patient handset or pear push switch incl. call and light switch remains pressed. The outputs may be loaded with 60 mA.
- The dimming feature requires suitable dimmable ballasts, e.g. with DALI interface.
- Connection possibility for 5 entertainment programmes
- Connection possibility for blinds control
- Entertainment and blinds control are available with ePat<sup>®</sup>lite. Entertainment or blinds control are available with patient handset.
- In case of blinds control transmission of the control signals via RAN interface universal, order no. 70 0848 00.
- Connection for TV tone
- TV control in combination with RAN interface, order no. 77 0840 00.
- TV-Ton-/Entertainment input: 25 V<sub>eff</sub>
- Standard set to channel 3 (i.e. bed 3)
- 40-pole connection block for internal connection within the medical supply unit
- Connection via a 40 pole flat cable
- 4-pole connector for reading light control
- Jumper for setting the bed number

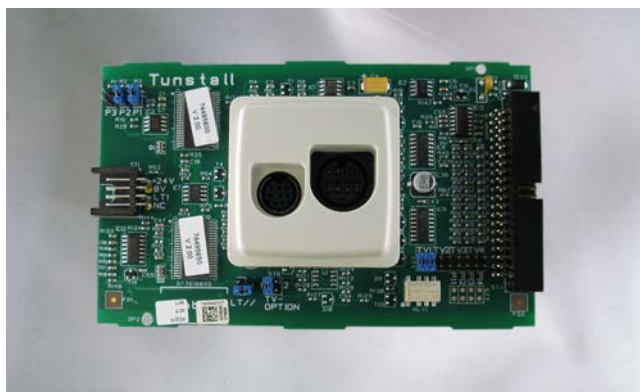
## Technical data

Dimensions (HxWxD): 81 x 131 x 37 mm  
 Colour: RAL 9018 papyrus white  
 Material: ABS

| Order number | Product name                          | Notes              |
|--------------|---------------------------------------|--------------------|
| 70 0434 00   | Connection socket combi, bedhead unit | as described above |

# Connection socket combi, bedhead unit, TVL

70 0434 50



## General description

Combined connection socket with two different sockets for connection of patient units and/or call devices.

Intended for the following functions: transmission of calls, control of 2 light sources, TV transmission, transmission of entertainment programmes and blinds control.

Preferably designed for mounting in medical supply units.

**Use this connection socket only, if TV is connected via IR TV control module Audio (order no. 70 0360 11).**

## Specification

- 2 different sockets for use either individually or simultaneously
- 1 socket for connection of an ePat<sup>®</sup>lite or patient handset, 13-pole
- 1 socket for connection of a call device, 8-pole (e.g. pear push switch)
- Integrated disconnection call

- The two outputs for light control provide a 24 V signal for the length of time the light switch on the ePat<sup>®</sup>lite, patient handset or pear push switch incl. call and light switch remains pressed. The outputs may be loaded with 60 mA.
- The dimming feature requires suitable dimmable ballasts, e.g. with DALI interface.
- Connection possibility for 5 entertainment programmes
- Connection possibility for blinds control
- Entertainment and blinds control are available with ePat<sup>®</sup>lite. Entertainment or blinds control are available with patient handset.
- In case of blinds control transmission of the control signals via RAN interface universal, order no. 70 0848 00.
- Connection for TV tone
- TV control in combination with RAN interface, order no. 77 0840 00.
- Entertainment input: 25 V<sub>eff</sub>
- TV tone input: 5 V<sub>eff</sub>
- Standard set to channel 3 (i.e. bed 3)
- 40-pole connection block for internal connection within the medical supply unit
- Connection via a 40 pole flat cable
- 4-pole connector for reading light control
- Jumper for setting the bed number

## Technical data

|                     |                        |
|---------------------|------------------------|
| Dimensions (HxWxD): | 81 x 131 x 37 mm       |
| Colour:             | RAL 9018 papyrus white |
| Material:           | ABS                    |

| Order number | Product name                               | Notes              |
|--------------|--|--------------------|
| 70 0434 50   | Connection socket combi, bedhead unit, TVL | as described above |

# Connection socket combi, bedhead unit

*Studio white*

**70 0435 00**



## General description

Combined connection socket with two different sockets for connection of patient units and/or call devices.

Intended for the following functions: transmission of calls, control of 2 light sources, TV transmission, transmission of entertainment programmes and blinds control.

Preferably designed for mounting in medical supply units.

## Specification

- 2 different sockets for use either individually or simultaneously
- 1 socket for connection of an ePat<sup>®</sup>lite or patient handset, 13-pole
- 1 socket for connection of a call device, 8-pole (e.g. pear push switch)
- Integrated disconnection call

- The two outputs for light control provide a 24 V signal for the length of time the light switch on the ePat<sup>®</sup>lite, patient handset or pear push switch incl. call and light switch remains pressed. The outputs may be loaded with 60 mA.
- The dimming feature requires suitable dimmable ballasts, e.g. with DALI interface.
- Connection possibility for 5 entertainment programmes
- Connection possibility for blinds control
- Entertainment and blinds control are available with ePat<sup>®</sup>lite. Entertainment or blinds control are available with patient handset.
- In case of blinds control transmission of the control signals via RAN interface universal, order no. 70 0848 00.
- Connection for TV tone
- TV control in combination with RAN interface, order no. 77 0840 00.
- TV-Ton-/Entertainment input: 25 V<sub>eff</sub>
- Standard set to channel 3 (i.e. bed 3)
- 40-pole connection block for internal connection within the medical supply unit
- Connection via a 40 pole flat cable
- 4-pole connector for reading light control
- Jumper for setting the bed number

## Technical data

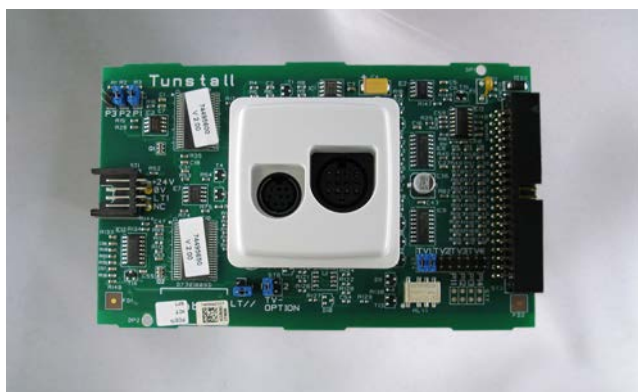
|                     |                                   |
|---------------------|-----------------------------------|
| Dimensions (HxWxD): | 81 x 131 x 37 mm                  |
| Colour:             | Studio white, similar to RAL 9016 |
| Material:           | Polycarbonate                     |

| Order number | Product name  | Notes              |
|--------------|---|--------------------|
| 70 0435 00   | Connection socket combi, bedhead unit, Studio white | as described above |

# Connection socket combi, bedhead unit, TVL

Studio white

70 0435 50



## General description

Combined connection socket with two different sockets for connection of patient units and/or call devices.

Intended for the following functions: transmission of calls, control of 2 light sources, TV transmission, transmission of entertainment programmes and blinds control.

Preferably designed for mounting in medical supply units.

**Use this connection socket only, if TV is connected via IR TV control module Audio (order no. 70 0360 11).**

## Specification

- 2 different sockets for use either individually or simultaneously
- 1 socket for connection of an ePat<sup>®</sup>lite or patient handset, 13-pole
- 1 socket for connection of a call device, 8-pole (e.g. pear push switch)
- Integrated disconnection call

- The two outputs for light control provide a 24 V signal for the length of time the light switch on the ePat<sup>®</sup>lite, patient handset or pear push switch incl. call and light switch remains pressed. The outputs may be loaded with 60 mA.
- The dimming feature requires suitable dimmable ballasts, e.g. with DALI interface.
- Connection possibility for 5 entertainment programmes
- Connection possibility for blinds control
- Entertainment and blinds control are available with ePat<sup>®</sup>lite. Entertainment or blinds control are available with patient handset.
- In case of blinds control transmission of the control signals via RAN interface universal, order no. 70 0848 00.
- Connection for TV tone
- TV control in combination with RAN interface, order no. 77 0840 00.
- Entertainment input: 25 V<sub>eff</sub>
- TV tone input: 5 V<sub>eff</sub>
- Standard set to channel 3 (i.e. bed 3)
- 40-pole connection block for internal connection within the medical supply unit
- Connection via a 40 pole flat cable
- 4-pole connector for reading light control
- Jumper for setting the bed number

## Technical data

|                     |                                   |
|---------------------|-----------------------------------|
| Dimensions (HxWxD): | 81 x 131 x 37 mm                  |
| Colour:             | Studio white, similar to RAL 9016 |
| Material:           | Polycarbonate                     |

| Order number | Product name   | Notes              |
|--------------|--|--------------------|
| 70 0435 50   | Connection socket combi, bedhead unit, TVL, Studio white | as described above |

# Pear push switch

for connection socket 700xxxxx

**70 071x 0x**



*Pear push switch incl. call and light switch*



*Pear push switch incl. 2 call switches*

## General description

Pear push switch incl. call and light switch: Humidity protected call and light switch for activation of calls and reading light control.

Pear push switch incl. 2 call switches: Humidity protected call switch for activation of calls.

Integrated reassurance light for indicating an activated call.

Plug-in connection to a connection socket, order no. 70 0xxx xx, socket for pear push switch.

## Specification

- Ergonomic switches designed to facilitate easy operation and for the prevention of unintentionally initiated calls
- Compact housing providing moisture protection and enabling easy cleaning and disinfecting
- Pear push switch incl. call and light switch:
  - Red call button with reassurance light and integrated night location light, red LED;
  - Button for reading light control
- Pear push switch incl. 2 call switches:
  - 2 red call buttons with reassurance light and integrated night location light, red LED
- Connection cable with robust plug according to DIN 41524.

## Technical data

Dimensions (HxW): 60 x 120 mm  
 Colour: RAL 9018 papyrus white  
 Housing material: ABS

| Order number | Product name                                      | Notes                          |
|--------------|---|--------------------------------|
| 70 0710 00   | Pear push switch incl. call and light switch, 2 m | for connection socket 700xxxxx |
| 70 0710 01   | Pear push switch incl. call and light switch, 4 m | for connection socket 700xxxxx |
| 70 0711 00   | Pear push switch incl. 2 call switches, 2 m       | for connection socket 700xxxxx |
| 70 0711 01   | Pear push switch incl. 2 call switches, 4 m       | for connection socket 700xxxxx |

# Sound detector

for connection socket 700xxxxx

**70 0790 01**



## General description

The sound detector registers the noises produced by the patient as call and then initiates a call in the nurse call system. Furthermore a call can be initiated by pressing the red call button on the unit.

There are several operation indicators and adjustment possibilities.

Plug-in connection to a connection socket, order no. 70 0xxx xx, socket for pear push switch.

## Specification

- Microphone sensitivity adjustable
- Noise filtering adjustable
- LED call indicator (orange)
- LED microphone status (green)
- Call button (red) for manual raising of calls
- Disconnection monitoring
- Microphone ON/OFF switch (grey)
- Microphone
- Approx. 2 m flexible cable with plug for connection to a connection socket of the nurse call system, socket for pear push switch

## Technical data

Microphone sensitivity: -38 +/- 3dB  
 Degree of protection: IP30  
 Dimensions (DxHxH): 110 x 20 x 50 mm

| Order number | Product name   | Notes                          |
|--------------|----------------|--------------------------------|
| 70 0790 01   | Sound detector | for connection socket 700xxxxx |

# Patient handset

**74 0747 00**



## General description

Universal patient unit with duplex speech facility. Designed for use at the patient bed.

Handset with integrated impact and moisture protection (IP54) for simple cleaning and disinfecting.

Standard equipment includes all control elements for communication between patient and staff. Additional features are control of two light sources, TV transmission, transmission of entertainment programmes or as an option control of an external actuator (e.g. blinds control).

Clear arrangement of the individual functions ensures its safe use, particularly in emergency situations.

## Specification

- Ergonomic housing with all-round protection
- High protection rating (IP54)
- Automatic adjustment of acoustic volume in relation to the operating mode
- Transmission of sound (TV/entertainment) either discrete or open via loudspeaker
- Plug-in connection to Connection socket combi, order no. 70 0424 00 or 70 0424 50, or Connection socket combi, bedhead unit, order no. 70 0434 00 or 70 0434 50
- TV control in combination with RAN interface
- Clear designation of control keys by simple symbols
- Excellent speech quality, high-end electret microphone and high-quality loudspeaker
- Red call button with reassurance light and integrated night location light
- Yellow light key for reading light with location light
- Yellow light key for room light
- 2 buttons for the control of entertainment programmes or of an external actuator (e.g. blinds control) depending on the installation of the connection socket.
- 2 keys for volume control of entertainment/TV
- 2 keys for TV system control, status indication
- 1 headphones socket (3.5 mm jack plug) for standard headphones (32 Ohm)
- Connection cable with robust plug, 2.5 m



# Patient handset

74 0747 00

- Page 2 -



## Technical data

|                     |                        |
|---------------------|------------------------|
| Dimensions (HxWxD): | 195.5 x 52 x 25 mm     |
| Weight incl. cable: | 297 g                  |
| Colour:             | Pantone 427 light grey |
| Housing material:   | ABS                    |

| Order number   | Product name            | Notes                      |
|--|-------------------------|----------------------------|
| 74 0747 00   | Patient handset         | as described above         |
| <b>Necessary accessories, order separately:</b>          |                         |                            |
| 70 0800 00   | Patient handset bracket | see appendix „accessories“ |
| <b>Optional accessories, may be ordered if required:</b> |                         |                            |
| 70 0801 00   | Headphone               | see appendix „accessories“ |

# Self-releasing adapter

74 0812 5x



## General description

Self-releasing adapter patient unit: Safety item for connection to patient handsets. Consisting of plug and socket for connection to connection sockets, order no. 70 04x4 00.

Self-releasing adapter pear push switch: Safety item for connection to pear push switches. Consisting of plug and socket for connection to connection sockets, order no. 70 xxxx xx and 73 xxxx xx.

When subjected to a pulling force, the self-releasing adapter automatically separates the connection and protects the connection socket, the cable and the connected device.

## Specification

- Ergonomically shaped adapter for connection to connection sockets
- Flexible design, automatic alignment when pulling force is applied
- Connection released when pulled from any direction, up to 90 degrees
- Variant patient unit (e.g. for Patient handset): 13-pole socket
- Variant pear push switch: 8-pole socket

## Technical data

### Self-releasing adapter patient unit

Dimensions (HxWxLength): 17 x 17 x 120 mm

Weight: 52 g

### Self-releasing adapter pear push switch

Dimensions (HxWxLength): 14 x 14 x 120 mm

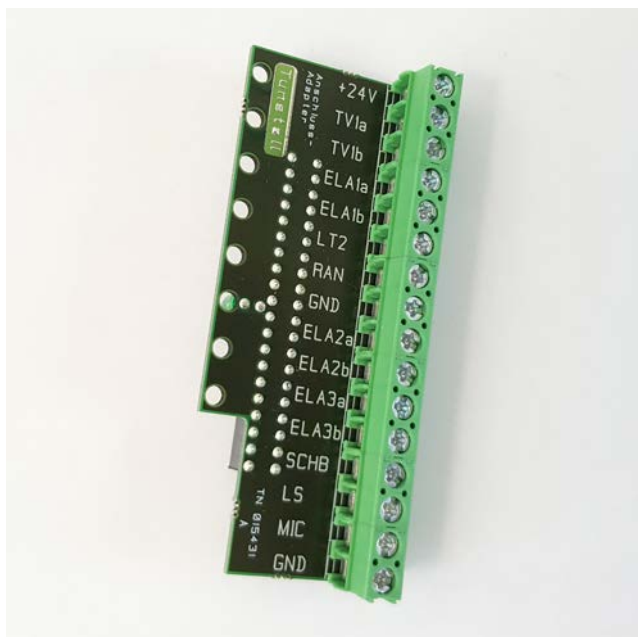
Weight: 26 g

Colour: RAL 9002 grey white

| Order number | Product name                            | Notes              |
|--------------|---|--------------------|
| 74 0812 50   | Self-releasing adapter patient unit     | as described above |
| 74 0812 51A  | Self-releasing adapter pear push switch | as described above |

# Connector interface module

**70 0834 00**



## General description

16-pole plug-in adapter for use in conjunction with connection socket combi, bedhead unit, order no. 70 0434 00 or 70 0435 00.

The connector interface module converts the 40-pin ribbon cable connector to a screw terminal block, allowing the termination of regular cabling.

Designed for system renewal in medical supply units.

## Connection options

- Room bus RAN
- 3 entertainment sound channels
- 1 TV sound channel
- 24 V DC power supply
- Speech communication
- Output for light control

| Order number | Product name               | Notes              |
|--------------|----------------------------|--------------------|
| 70 0834 00   | Connector interface module | as described above |

# Hospital LED TV, professional

## 74 7005 xx/15

### General description

Energy-efficient LED TV for professional use with many comfort features - compact, flat and elegant. Ideally suited for patient rooms. Prepared for use together with Flamenco nurse call system.

### Picture / Display

- Display: LED Full HD or HD (depending on the model)
- Panel resolution: 1920 x 1080p or 1366 x 768p (depending on the model)
- Aspect ratio: 16:9

### Tuner/Reception/Transmission

- Aerial Input: IEC75
- Digital TV: DVB-T/T2/C

### Connectivity

- HDMI 1.4
- USB 2.0
- SCART
- Digital audio out: Optical
- Mains power: 220 – 240 V, 50/60 Hz

### Philips Medical Card External (PMC-E)

For preparing the TV set for control using nurse call system patient units.

- Set-back-solution incl. external box for mounting to the TV back side for connection of the TV set to the nurse call system.
- Specific transformer ST5499

### PMC-E cable kit Philips Premium Suite

Control cable for the connection of the TV set to the nurse call system.

- Audio cable, 0.5 m
- Data cable, 0.5 m
- 12 V power supply incl. 0.5 m cable
- Fixing material

### Control cable PMC-(E) Tunstall

- Control cable (1.5 m) for the connection of the TV set to the nurse call system.
- SCART plug > RJ45 plug

### Installation service

Pre-configuration of the whole system consisting of TV set and PMC-E for use with Flamenco nurse call system.

*As the TV sets are subject of continuous development, please enquire the current specification directly from us.*

| Order number                                    | Product name                      | Notes                                 |
|---|-----------------------------------|---------------------------------------|
| 74 7005 28/15                                   | Hospital LCD TV, professional 28" | Diagonal screen size: 70 cm, 28 inch  |
| 74 7005 32/15                                   | Hospital LCD TV, professional 32" | Diagonal screen size: 81 cm, 32 inch  |
| 74 7005 40/15                                   | Hospital LCD TV, professional 40" | Diagonal screen size: 100 cm, 40 inch |
| 74 7005 48/15                                   | Hospital LCD TV, professional 48" | Diagonal screen size: 121 cm, 48 inch |
| <b>Necessary accessories, order separately:</b> |                                   |                                       |
| 77 0840 00                                      | RAN interface                     | see appropriate data sheet            |

# System module HEALTH

76 0730 00



- Supporting different organisational concepts: centralised, decentralised, mixed
- Managing additionally installed function modules, e.g. telephony
- Controlling all connected interfaces and displays

## Characteristics

- 2 staff presence groups
- At least 10 different call types
- Signalling according to DIN VDE 0834
- Bed identification
- Voice communication: Room, bed
- Automatically controlled privacy function
- Various announcements: Rooms, areas
- Zone nursing
- Ward couplings
- Forming of organisational groups
- Automatic call transfer
- Call handling between wards

## General description

System software for the operation of a nurse call system, intended for the use in hospitals or similar institutions. The system module is supplied pre-installed on an IP-SystemManager (to be ordered separately).

The system module HEALTH provides the function of a complete nurse call system and can be combined with further function modules.

## Scope of functions

- Controlling one physical ward of a nurse call system
- Coordinates overacting performance features when several IP-SystemManagers are coupled
- Suitable for systems with or without voice communication
- Functional characteristics according to DIN VDE 0834
- Permanent self monitoring of all connected components

## System maintenance

In order to keep the system and the installed system modules up-to-date, it is mandatory to conclude a software maintenance contract. The annual costs include the usage rights and a regular software maintenance in the form of security updates to ensure system integrity.

| Order number   | Product name                               | Note                    |
|--|--|-------------------------|
| 76 0730 00   | System module HEALTH                       |                         |
| <b>Mandatory software maintenance, order additionally:</b> |  |                         |
| 76 7030 00   | Software support HEALTH system, base costs | see appendix „services“ |
| 76 7130 00   | Software support System module HEALTH      | see appendix „services“ |

# System module CARE

**76 0735 00**



## General description

System software for the operation of a nurse call system, intended for the use in nursing homes or similar institutions. The system module is supplied pre-installed on an IP-SystemManager (to be ordered separately).

The system module CARE provides the function of a complete nurse call system and can be combined with further function modules.

## Scope of functions

- Controlling one physical ward of a nurse call system
- Coordinates overacting performance features when several IP-SystemManagers are coupled
- Suitable for systems with or without voice communication
- Functional characteristics according to DIN VDE 0834

- Permanent self monitoring of all connected components
- Supporting different organisational concepts: centralised, decentralised, mixed
- Managing additionally installed function modules, e.g. telephony
- Controlling all connected interfaces and displays

## Characteristics

- 2 staff presence groups
- At least 10 different call types
- Signalling according to DIN VDE 0834
- Bed identification
- Voice communication: Room, bed
- Automatically controlled privacy function
- Various announcements: Rooms, areas
- Zone nursing
- Ward couplings
- Forming of organisational groups
- Automatic call transfer
- Call handling between wards

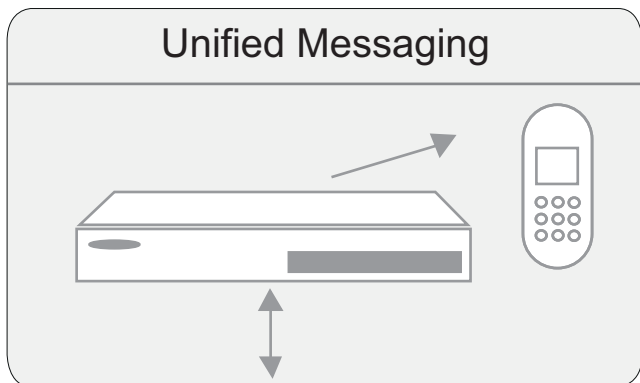
## System maintenance

In order to keep the system and the installed system modules up-to-date, it is mandatory to conclude a software maintenance contract. The annual costs include the usage rights and a regular software maintenance in the form of security updates to ensure system integrity.

| Order number   | Product name                             | Note                    |
|--|--|-------------------------|
| 76 0735 00   | System module CARE                       |                         |
| <b>Mandatory software maintenance, order additionally:</b> |  |                         |
| 76 7035 00   | Software support CARE system, base costs | see appendix „services“ |
| 76 7135 00   | Software support System module CARE      | see appendix „services“ |

# Function module UM/A

**76 0740 00**



## General description

The function module UM/A effectively complements the Flamenco<sup>IP</sup> nurse call system. It serves for an uni-directional connection of telephone systems or pagers to the Flamenco<sup>IP</sup> nurse call system.

The function module is supplied pre-installed on an IP-SystemManager (to be ordered separately). It makes the functionality available in the entire nurse call system.

Messages from the nurse call system are selectively forwarded to mobile devices, e.g. DECT, and are displayed there.

## Interface

The telephony system and/or the messaging server is physically connected to the LAN.

Function module UM/A supports Ascom systems.

## Specification

The standard range of functions is described in the appropriate product description.

- Displaying of messages from the nurse call system: Calls, emergency calls, alarms
- Displaying of calling location: Bed, room, ward
- Acknowledgement of the message
- Confirmation of call acceptance

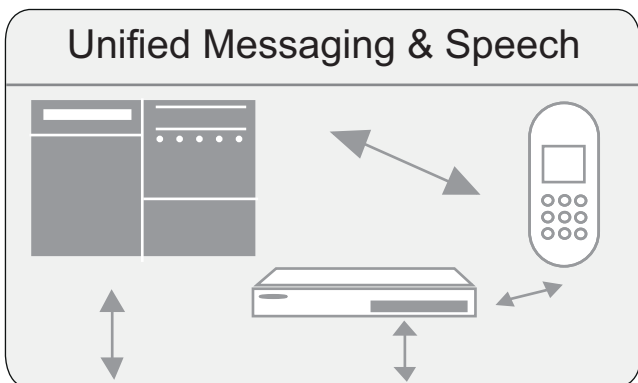
## System maintenance

In order to keep the system and the installed function modules up-to-date, it is mandatory to conclude a software maintenance contract. The annual costs include the usage rights and a regular software maintenance in the form of security updates to ensure system integrity.

| Order number   | Product name                          | Note                    |
|--|---------------------------------------|-------------------------|
| 76 0740 00   | Function module UM/A                  |                         |
| <b>Mandatory software maintenance, order additionally:</b> |                                       |                         |
| 76 7040 00   | Software support Function module UM/A | see appendix „services“ |

# Function module UMS/A

**76 0740 01**



## General description

The function module UMS/A effectively complements the Flamenco<sup>IP</sup> nurse call system. It serves for an unidirectional connection of telephone systems or pagers to the Flamenco<sup>IP</sup> nurse call system. This extended connection supports voice communication, SIP/VoIP.

The function module is supplied pre-installed on an IP-SystemManager (to be ordered separately). It makes the functionality available in the entire nurse call system.

Messages from the nurse call system are selectively forwarded to mobile devices, e.g. DECT, and are displayed there. Voice communication can take place between the nurse call system and the telephony system.

## Interface

The telephony system and/or the messaging server is physically connected to the LAN.

Function module UMS/A supports Ascom systems.

## Specification

The standard range of functions is described in the appropriate product description.

- Displaying of messages from the nurse call system: Calls, emergency calls, alarms
- Displaying of calling location: Bed, room, ward
- Acknowledgement of the message
- Confirmation of call acceptance
- Cancelling of calls (if permitted)

## System maintenance

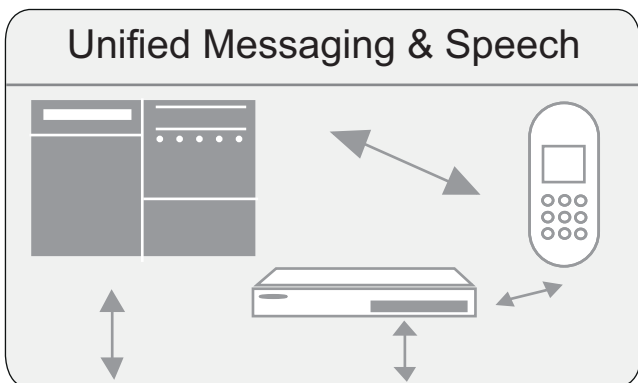
In order to keep the system and the installed function modules up-to-date, it is mandatory to conclude a software maintenance contract. The annual costs include the usage rights and a regular software maintenance in the form of security updates to ensure system integrity.

| Order number   | Product name                           | Note                    |
|--|--|-------------------------|
| 76 0740 01   | Function module UMS/A                  |                         |
| <b>Mandatory software maintenance, order additionally:</b> |  |                         |
| 76 7040 01   | Software support Function module UMS/A | see appendix „services“ |



# Function module UMS/T

**76 0740 10**



## General description

The function module UMS/T effectively complements the Flamenco<sup>IP</sup> nurse call system. It serves for an unidirectional connection of telephone systems or pagers to the Flamenco<sup>IP</sup> nurse call system. This extended connection supports voice communication, SIP/VoIP.

The function module is supplied pre-installed on an IP-SystemManager (to be ordered separately). It makes the functionality available for the entire nurse call system.

Messages from the nurse call system are selectively forwarded to mobile devices, e.g. DECT, and are displayed there. Voice communication can take place between the nurse call system and the telephony system.

## Interface

The telephony system and/or the messaging server is physically connected to the LAN.

Function module UMS/T supports Tetronik systems.

## Specification

The standard functionality is described in the appropriate product description.

- Displaying of messages from the nurse call system: Calls, emergency calls, alarms
- Displaying of calling location: Bed, room, ward
- Acknowledgement of the message
- Confirmation of call acceptance
- Cancelling of calls (if permitted)

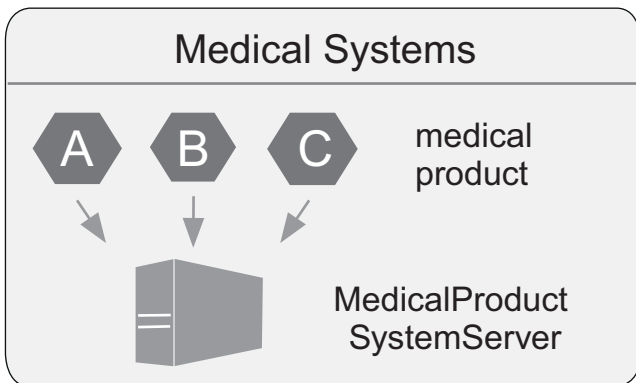
## System maintenance

In order to keep the system and the installed function modules up-to-date, it is mandatory to conclude a software maintenance contract. The annual costs include the usage rights and a regular software maintenance in the form of security updates to ensure system integrity.

| Order number   | Product name                           | Note                    |
|--|--|-------------------------|
| 76 0740 10   | Function module UMS/T                  |                         |
| <b>Mandatory software maintenance, order additionally:</b> |  |                         |
| 76 7040 10   | Software support Function module UMS/T | see appendix „services“ |

# Function module MED

**76 0741 00**



## General description

The function module MED effectively complements the Flamenco<sup>IP</sup> nurse call system. It serves for an uni-directional connection of electro-medical systems to the nurse call system Flamenco<sup>IP</sup>.

The function module is supplied pre-installed on an IP-SystemManager (to be ordered separately). It makes the functionality available for the entire nurse call system.

Filtered messages are received by the nurse call system and displayed there. Hereby the priorities, the display order, and the display location can be configured.

The displayed data can be received from the interface or can be assigned in a separate table.

## Interface

The communication is realised using ESPA 4.4.4 protocol via a serial interface RS 232.

The choice of the data to be transferred and the configuration is made in a close agreement with the customer

## Specification

The standard range of functions is described in the appropriate product description.

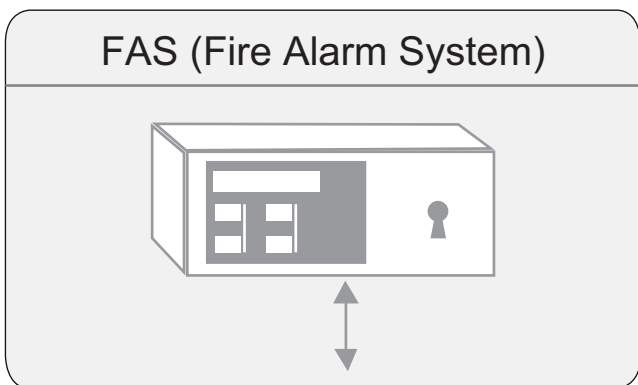
## System maintenance

In order to keep the system and the installed function modules up-to-date, it is mandatory to conclude a software maintenance contract. The annual costs include the usage rights and a regular software maintenance in the form of security updates to ensure system integrity.

| Order number   | Product name                         | Note                    |
|--|--------------------------------------|-------------------------|
| 76 0741 00   | Function module MED                  |                         |
| <b>Mandatory software maintenance, order additionally:</b> |                                      |                         |
| 76 7041 00   | Software support Function module MED | see appendix „services“ |

# Function module FAS

**76 0742 00**



## General description

The function module FAS effectively complements the Flamenco<sup>IP</sup> nurse call system. It serves for an uni-directional connection of fire alarm systems to the nurse call system Flamenco<sup>IP</sup>.

The function module is supplied pre-installed on an IP-SystemManager (to be ordered separately). It makes the functionality available for the entire nurse call system.

Filtered messages are received by the nurse call system and displayed there. Hereby the priorities, the display order, and the display location can be configured.

The displayed data can be received from the interface or can be assigned in a separate table.

## Interface

The communication is realised using ESPA 4.4.4 protocol via a serial interface RS232.

The choice of the data to be transferred and the configuration is made in a close agreement with the customer.

## Specification

The standard range of functions is described in the appropriate product description.

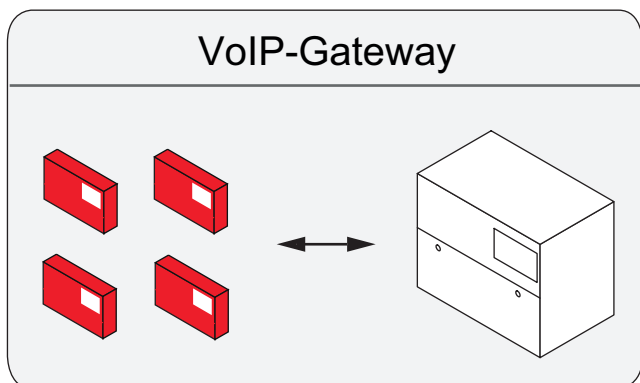
## System maintenance

In order to keep the system and the installed function modules up-to-date, it is mandatory to conclude a software maintenance contract. The annual costs include the usage rights and a regular software maintenance in the form of security updates to ensure system integrity.

| Order number   | Product name                         | Note                    |
|--|--------------------------------------|-------------------------|
| 76 0742 00   | Function module FAS                  |                         |
| <b>Mandatory software maintenance, order additionally:</b> |                                      |                         |
| 76 7042 00   | Software support Function module FAS | see appendix „services“ |

# Function module VOIP GATE

76 0743 00



## General description

The function module VOIP GATE effectively complements the Flamenco<sup>IP</sup> nurse call system.

The function module is supplied pre-installed on an IP-SystemManager (to be ordered separately). It represents a gateway to VoIP applications.

This gateway can be used to connect a Management-Center to the Flamenco<sup>IP</sup> nurse call system or to install a speech channel between an OSY-ControlCenter and the Flamenco<sup>IP</sup> nurse call system. The application allows a mixed operation between analogue and digital Flamenco solutions.

An IP-SystemManager with VOIP GATE function module enables the connection of a ManagementCenter, i.e. a console workstation

An IP System Manager with VOIP GATE function module enables the connection of two speech lines of an OSY-ControlCenter.

## Interface

The communication is established via the NF connection terminal of the IP-SystemManagers. Depending on the number of requested speech channels possibly several IP-SystemManager have to be installed for the application.

## System maintenance

In order to keep the system and the installed function modules up-to-date, it is mandatory to conclude a software maintenance contract. The annual costs include the usage rights and a regular software maintenance in the form of security updates to ensure system integrity.

| Order number   | Product name                               | Note                    |
|--|--|-------------------------|
| 76 0743 00   | Function module VOIP GATE                  |                         |
| <b>Mandatory software maintenance, order additionally:</b> |  |                         |
| 76 7043 00   | Software support Function module VOIP GATE | see appendix „services“ |

# IP-SystemManager

76 2100 00



## General description

Decentralised control unit for operating a Flamenco<sup>IP</sup> nurse call system for each organizational group. The number of required IP-SystemManagers for one complete system depends on the number of wards and required central interfaces. The project-specific system design and determination of the necessary components take place during project planning.

All IP-SystemManagers are equipped with the same technology and differ through the installed function modules and a project-specific configuration. The IP-SystemManagers are set up according to the requirements and configured with the provided project-specific data at the factory.

Each IP-SystemManager is prepared to control the nurse call operation and voice communication of one organisational group, i.e., usually one ward. Several IP-SystemManagers are interconnected through an IP network (LAN). One IP SystemManager each in the entire system administers and coordinates cross-ward functions like ward coupling, voice communication and superordinate system messages.

## System and function modules

Various system and function modules are available for installation on the IP-SystemManagers - from the basic nurse call function up to complex interfaces. Single modules can be added and the system can be expanded at any time.

The modules are not part of the IP-SystemManager product. They must be purchased separately.

For safety reasons, an additional IP-SystemManager is needed for connecting medical systems or fire alarm systems to the nurse call system.

## System design

An IP-SystemManager can work in standalone operation; i.e., it provides complete control for a nurse call system that may consist of only one ward.

For the setup of larger systems, up to 64 IP-SystemManagers can be networked. Interconnection can be implemented through IP networks dedicated solely for the nurse call system or through the existing on-site IP network infrastructures. Here, the requirements of the corresponding standards, e.g., DIN VDE 0834, must be taken into consideration.

Through the separation of the physical system structure and the later organisation of the nurse call system, the formation of wards and organisational groups is very easy and not bound to a fixed grid. This is independent of the number of IP-SystemManagers and their arrangement in the system.

Through the use of digital voice processes and VoIP technology, the IP-SystemManager provides excellent voice quality throughout the entire system.

The respective system status can be recognised locally and system-wide using corresponding displays at any time.

## Functional security

Permanent monitoring of the functionality of all connected components, including the interfaces and network connections, insofar as permitted by the connected systems and components.

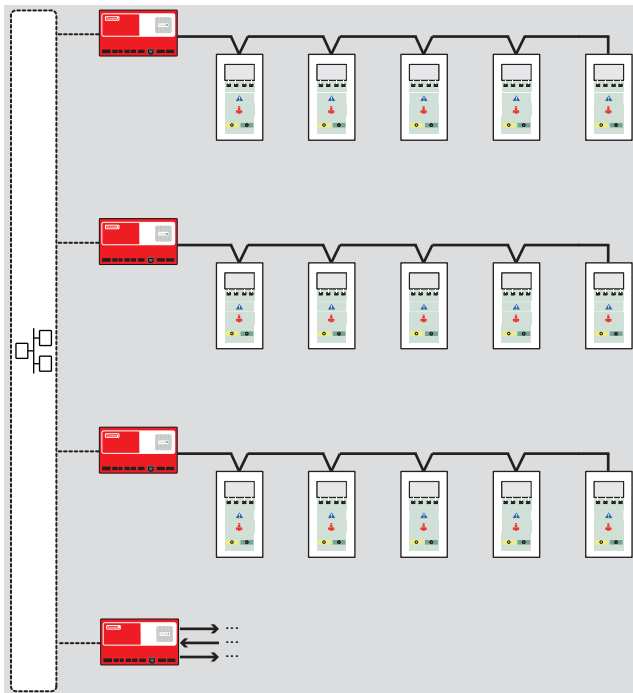
In case an IP-SystemManager fails, the other IP-SystemManagers of the nurse call system continue to work. The ward with the failed IP-SystemManager switches to minimum operation, i.e., the signalling of calls using the room lamps and call cancellation at the call location.

In case of the failure of systems or devices connected by interfaces and/or networks, the basic function of the nurse call system is always retained.

# IP-SystemManager

76 2100 00

- Page 2 -



- DIP switch for addressing and a lithium battery for the system clock, easily accessible behind the service cover
- Subsequent system expansion or system changes possible without a problem
- The OSYnet group bus of an existing Flamenco installation can be easily converted to control by an IP-SystemManager

## Power supply

The IP-SystemManager is supplied with 24 V DC through the nurse call system. Depending on the system setup, a separate power supply can also be used.

- Power supply, 24 V DC, 4-pole, with LED display (green) in case of existing power supply
- Input for the buffering message of the UPS control unit 10A or for the battery message of the power supply unit UPS, 1-pole, with LED display (red) for the battery message

## System maintenance

In order to keep the system and the installed system and function modules up-to-date, it is mandatory to conclude a software maintenance contract. The annual costs include the usage rights and a regular software maintenance in the form of security updates to ensure system integrity.

## Setup and equipment

- Device for mounting to a top-hat rail with 2 top-hat rail retaining clips on the rear of the device
- Installation into a 19" cabinet with optionally available accessories possible, spatial requirement: 3 U
- Pluggable screw connectors for easier assembly and troubleshooting
- Nurse call systems with or without voice communication can be implemented
- Status LED (green) flashes when the IP-SystemManager is in operation
- Remote access or system updates possible through the IP network

## Fault messages

All fault messages of the nurse call system are displayed on one IP-SystemManager. This IP-SystemManager is determined during the planning of the system.

- LED display (red) for the fault messages
- Fault signal output, changeover contact, potential free, 2-pole, function parallel to LED display

## Connection of OSYnet 1 group bus

It is technically possible, to connect a maximum of 110 bus users to one OSYnet group bus. Nevertheless, the size of a connected organisational group should not exceed a maximum of 55 rooms. The IP-SystemManager must be installed at the beginning or end of the group bus.

- OSYnet 1, 3-pole: Data wires for the OSYnet group bus for one organisational group; with LED displays for Rx (green) and Tx (yellow)
- NF 1, 2-pin: Speech wires of the OSYnet group bus for one organisational group, with LED display (yellow)

# IP-SystemManager

76 2100 00

- Page 3 -

## Connection of OSYnet 2 group bus

Not used.

## Ethernet connection

Through the IP network, all IP-SystemManagers of the nurse call system communicate with each other and with external devices or systems connected to the nurse call system through the IP network (e.g., telephony system).

- Ethernet, 10/100 Mbit LAN connection RJ45, max. line length: 90 m
- LED display (green) for link and LED display (yellow) for speed

## ESPA 4.4.4 interfaces

The IP-SystemManager is equipped with two RS232 connections using the ESPA 4.4.4 protocol. These connections are suitable for radio paging systems, DECT systems, fire alarm systems and medical systems. The release and use of these connections requires the purchasing of the corresponding function modules.

- RS232 A, 5-pole, ESPA 4.4.4, with LED display (green) for Rx and LED display (yellow) for Tx; max. line length: 10 m
- RS232 B, 5-pole, ESPA 4.4.4, with LED display (green) for Rx and LED display (yellow) for Tx; max. line length: 10 m

## Technical data

|                                |                                |
|--------------------------------|--------------------------------|
| Dimensions (HxWxD):            | 132 x 216 x 48 mm              |
| Housing colour:                | Red                            |
| Housing material:              | PS UL94-HB                     |
| Colour of the service cover:   | White                          |
| Material of the service cover: | ABS                            |
| Weight:                        | 415 g                          |
| Degree of protection:          | IP 20                          |
| Power supply:                  | 24 V DC                        |
| Permissible voltage range:     | 20 – 26 V DC                   |
| Standby current consumption:   | 120 mA                         |
| Ambient temperature:           | +5 °C – +40 °C                 |
| Relative humidity:             | 0 % – 85 %<br>(non-condensing) |

| Order number   | Product name                      | Note                    |
|--|-----------------------------------|-------------------------|
| 76 2100 00   | IP SystemManager                  |                         |
| <b>Optional accessories, order if required:</b>            |                                   |                         |
| 76 0900 01   | 19" Mounting Set                  | See separate data sheet |
| <b>Mandatory software maintenance, order additionally:</b> |                                   |                         |
| 76 7021 00   | Software support IP-SystemManager | see appendix „services“ |

# Ethernet switch, 8 port

10/100 Mbit/s, unmanaged

76 4500 00



## General description

The switch is suitable for use in Flamenco nurse call system and can be directly mounted on a standard top-hat rail.

## Specification

- Unmanaged switch, IEEE 802.3
- 10/100 Mbit Ethernet
- 8 ports (RJ45)
- Autonegotiation and autocrossing
- LED status displays
- Potential-free signalling contact signals power supply failure (24 V DC), current carrying capacity: typically 100 mA.
- Mounting on a standard top-hat rail
- Pluggable screw connection to the power supply (maximum 2.5 mm<sup>2</sup>)

## Technical data

|                       |  |
|-----------------------|--|
| Dimensions (HxWxD):   | 94 x 135 x 30 mm                       |
| Weight:               | 282 g                                  |
| Housing material:     | Aluminium                              |
| Degree of protection: | IP20                                   |
| Power supply:         | 24 V DC                                |
| Supply voltage range: | 18.5 V DC – 30.2 V DC                  |
| Current consumption:  | typ. 95 mA (at 24 V DC)<br>max. 240 mA |
| Ambient temperature   |  |
| - Storage/Transport:  | -20 °C – 70 °C                         |
| - Operation:          | 0 °C – 55 °C                           |
| Relative humidity:    | 5 % – 95 %<br>(non-condensing)         |

| Order number | Product name            | Note |
|--------------|-------------------------|------|
| 76 4500 00   | Ethernet switch, 8 port |      |



# Direction lamp

**77 0111 02**



## General description

Signal lamp with two sections, labelled with direction arrows for direction-referred indication of calls and call status incl. two LED modules (red, green).

The arrow labelling is made customer specific.

## Specification

- Transparent cover
- Service friendly through removable dividers and easy changeable LED modules
- 2 single sections
- 2 LED modules 24 V, red, green

## Technical data

|                                      |                 |
|--------------------------------------|-----------------|
| Dimensions (HxWxD):                  | 80 x 86 x 70 mm |
| Material:                            | Polycarbonate   |
| Power supply                         | 24 V DC         |
| Operating current per light section: | 75 mA           |

| Order number                                    | Product name                    | Notes                      |
|---|---------------------------------|----------------------------|
| 77 0111 02                                      | Direction lamp                  | as described above         |
| <b>Necessary accessories, order separately:</b> |                                 |                            |
| 17 0100 00                                      | Back box solid wall, 1-gang     | see appendix „accessories“ |
| 17 5100 00                                      | Back box partition wall, 1-gang | see appendix „accessories“ |

# Group lamp

**77 011x 02**



*Group lamp, 3 groups*

## General description

Signal lamps for several groups for group related display of calls.

Two single sections (red and green) per group with connection possibilities for signalling of calls and call status.

## Specification

- Transparent cover
- Service friendly through removable dividers and easy changeable LED modules
- 2 single sections with labelling per group
- 1 LED module 24 V, green, per group
- 1 LED module 24 V, red, per group
- 1 mounting frame from sheet steel

## Technical data

Dimensions (HxWxD) without mounting frame:

2 groups: 160 x 86 x 70 mm

3 groups: 240 x 86 x 70 mm

4 groups: 320 x 86 x 70 mm

Material: Polycarbonate

Power supply 24 V DC

Operating current

per light section: 75 mA

| Order number                                    | Product name                    | Notes                      |
|---|---------------------------------|----------------------------|
| 77 0112 02                                      | Group lamp, 2 groups            |                            |
| 77 0113 02                                      | Group lamp, 3 groups            |                            |
| 77 0114 02                                      | Group lamp, 4 groups            |                            |
| <b>Necessary accessories, order separately:</b> |                                 |                            |
| 17 0100 00                                      | Back box solid wall, 1-gang     | see appendix „accessories“ |
| 17 5100 00                                      | Back box partition wall, 1-gang | see appendix „accessories“ |

# Corridor display Alpha 16

77 01x0 00



*single-sided design*



*double-sided design*

## General description

Display for alphanumeric indication of calls and general system information. Tone generator for acoustic signals. Loudspeaker for announcements.

Designed for mounting in corridors or staff rooms. Direct connection to the group bus (OSYnet).

77 0150 00: single-sided design

77 0160 00: double-sided design

## Specification

- 16 digits, alphanumeric
- LED display, red, self-luminous
- Longer texts are automatically displayed as ticker
- Tone generator for signalling forwarded calls
- Integrated loudspeaker, e.g. for announcements or signal tones
- Ceiling holder included in delivery
- Interface OSYlink-Corridor display integrated
- Direct connection to the group bus (OSYnet).
- Connection cable with free wire ends for on site connection, length: 1.8 m

## Technical data

Dimensions (without holder)

- 77 0150 00 (HxWxD): 120 x 765 x 35 mm

- 77 0160 00 (HxWxD): 120 x 765 x 125 ,,

Weight

- 77 0150 00: approx. 3 kg

- 77 0160 00: approx. 6 kg

Colour: RAL 9016 traffic white

Housing material: Aluminium

Front panel: Acrylic glass

Digit height: 50 mm

Reading distance according to DIN: 25 m

Power supply: 24 V DC

Supply current

- 77 0150 00: 300 mA (average)

- 77 0160 00: 600 mA (average)

| Order number | Product name                            | Notes               |
|--------------|---|---------------------|
| 77 0150 00   | Corridor display Alpha 16               | single-sided design |
| 77 0160 00   | Corridor display Alpha 16, double-sided | double-sided design |

# Room lamp, 3 sections

77 0170 00



## General description

Signal lamp with 3 light sections for optical signalling of all call types and staff presences (2 staff groups).

Suitable for wall mounting in corridors or rooms. Modular design with replaceable decorative frame.

Further designs available on request.

Compatible with Flamenco and EccoLine with speech system.

## Specification

- 3 light sections
- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change and for free selection of signalling colours
- Utility patent (DPMA)
- Design patent (DPMA)
- Easy plug and play installation
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Standard set to channel 0

## Optical signalling

- LED red: Calls
- LED green: Staff group 1
- LED yellow: Staff group 2

## Technical data

|                      |                         |
|----------------------|-------------------------|
| Dimensions (HxWxD):  | 110 x 150 x 40 mm       |
| Colour:              | Silver                  |
| Housing material:    | ABS                     |
| Light dome material: | Styrene-acrylonitrile   |
| Power supply         | 24 V DC                 |
| Current consumption: | 30 mA per light section |

| Order number                                    | Product name                    | Notes                      |
|---|---------------------------------|----------------------------|
| 77 0170 00                                      | Room lamp, 3 sections           | as described above         |
| <b>Necessary accessories, order separately:</b> |                                 |                            |
| 17 0100 00                                      | Back box solid wall, 1-gang     | see appendix „accessories“ |
| 17 5100 00                                      | Back box partition wall, 1-gang | see appendix „accessories“ |
| 70 0807 00                                      | Connector, 3-pole               | see appendix „accessories“ |

# Room lamp cardiac alarm, WC

**77 0170 01**



## General description

Signal lamp with 3 light sections as complement to room lamp, order no. 77 0170 00, for optical signalling of cardiac alarms and/or WC calls.

Suitable for wall mounting in corridors or rooms. Modular design with replaceable decorative frame.

Further designs available on request.

The signal lamp is installed either in the corridor besides the room lamp (e.g. order no. 77 0170 00) for explicit signalling of WC calls and/or cardiac alarm or it is installed besides the WC door in the patient room for displaying the direction to the WC call.

Compatible with Flamenco and EccoLine with speech system.

## Specification

- 3 light sections
- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change and for free selection of signalling colours
- Utility patent (DPMA)
- Design patent (DPMA)
- Easy plug and play installation
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Standard set to channel 0

## Optical signalling

- LED blue: Cardiac alarm
- LED blue: Cardiac alarm
- LED white: WC call

## Technical data

|                      |                         |
|----------------------|-------------------------|
| Dimensions (HxWxD):  | 110 x 150 x 40 mm       |
| Colour:              | Silver                  |
| Housing material:    | ABS                     |
| Light dome material: | Styrene-acrylonitrile   |
| Power supply         | 24 V DC                 |
| Current consumption: | 30 mA per light section |

| Order number                                    | Product name                    | Notes                      |
|---|---------------------------------|----------------------------|
| 77 0170 01                                      | Room lamp cardiac alarm, WC     | as described above         |
| <b>Necessary accessories, order separately:</b> |                                 |                            |
| 17 0100 00                                      | Back box solid wall, 1-gang     | see appendix „accessories“ |
| 17 5100 00                                      | Back box partition wall, 1-gang | see appendix „accessories“ |
| 70 0807 00                                      | Connector, 3-pole               | see appendix „accessories“ |

# Room lamp, 4 sections

77 0170 10



## General description

Signal lamp with 4 light sections for optical signalling of all call types, staff presences (2 staff groups), and for WC call as single display.

Suitable for wall mounting in corridors or rooms. Modular design with replaceable decorative frame.

Further designs available on request.

Compatible with Flamenco and EccoLine with speech system.

## Specification

- 4 light sections
- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change and for free selection of signalling colours
- Utility patent (DPMA)
- Design patent (DPMA)
- Easy plug and play installation
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Standard set to channel 0

## Optical signalling

- LED red: Calls
- LED green: Staff group 1
- LED yellow: Staff group 2
- LED white: WC call

## Technical data

|                      |                         |
|----------------------|-------------------------|
| Dimensions (HxWxD):  | 110 x 150 x 40 mm       |
| Colour:              | Silver                  |
| Housing material:    | ABS                     |
| Light dome material: | Styrene-acrylonitrile   |
| Power supply         | 24 V DC                 |
| Current consumption: | 30 mA per light section |

| Order number                                    | Product name                    | Notes                      |
|---|---------------------------------|----------------------------|
| 77 0170 10                                      | Room lamp, 4 sections           | as described above         |
| <b>Necessary accessories, order separately:</b> |                                 |                            |
| 17 0100 00                                      | Back box solid wall, 1-gang     | see appendix „accessories“ |
| 17 5100 00                                      | Back box partition wall, 1-gang | see appendix „accessories“ |
| 70 0807 00                                      | Connector, 3-pole               | see appendix „accessories“ |

# Room lamp, 3 sections, with doorplate

77 0171 00



## Specification

- 3 light sections
- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change and for free selection of signalling colours
- Utility patent (DPMA)
- Design patent (DPMA)
- Easy plug and play installation
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Standard set to channel 0

## Optical signalling

- LED red: Calls
- LED green: Staff group 1
- LED yellow: Staff group 2

## General description

Signal lamp with 3 light sections for optical signalling of all call types and staff presences (2 staff groups). Doorplate as label field for room designation.

Suitable for wall mounting in corridors or rooms. Modular design.

Compatible with Flamenco and EccoLine with speech system.

## Technical data

|                      |                         |
|----------------------|-------------------------|
| Dimensions (HxWxD):  | 190 x 150 x 40 mm       |
| Label field (HxW):   | approx. 70 x 92 mm      |
| Colour:              | Silver                  |
| Housing material:    | ABS                     |
| Light dome material: | Styrene-acrylonitrile   |
| Power supply         | 24 V DC                 |
| Current consumption: | 30 mA per light section |

| Order number                                    | Product name                          | Notes                      |
|---|---------------------------------------|----------------------------|
| 77 0171 00                                      | Room lamp, 3 sections, with doorplate | as described above         |
| <b>Necessary accessories, order separately:</b> |                                       |                            |
| 17 0100 00                                      | Back box solid wall, 1-gang           | see appendix „accessories“ |
| 17 5100 00                                      | Back box partition wall, 1-gang       | see appendix „accessories“ |
| 70 0807 00                                      | Connector, 3-pole                     | see appendix „accessories“ |

# Room lamp, 4 sections, with doorplate

77 0171 10



## General description

Signal lamp with 4 light sections for optical signalling of all call types, staff presences (2 staff groups), and for WC call as single display. Doorplate as label field for room designation.

Suitable for wall mounting in corridors or rooms. Modular design with replaceable decorative frame.

Further designs available on request.

Compatible with Flamenco and EccoLine with speech system.

## Specification

- 4 light sections
- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change and for free selection of signalling colours
- Utility patent (DPMA)
- Design patent (DPMA)
- Easy plug and play installation
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Standard set to channel 0

## Optical signalling

- LED red: Calls
- LED green: Staff group 1
- LED yellow: Staff group 2
- LED white: WC call

## Technical data

|                      |                         |
|----------------------|-------------------------|
| Dimensions (HxWxD):  | 190 x 150 x 40 mm       |
| Label field (HxW):   | approx. 70 x 92 mm      |
| Colour:              | Silver                  |
| Housing material:    | ABS                     |
| Light dome material: | Styrene-acrylonitrile   |
| Power supply         | 24 V DC                 |
| Current consumption: | 30 mA per light section |

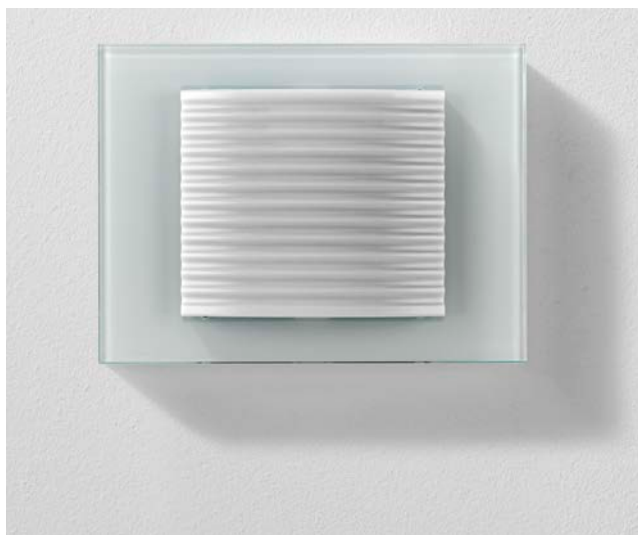
| Order number                                    | Product name                          | Notes                      |
|---|---------------------------------------|----------------------------|
| 77 0171 10                                      | Room lamp, 4 sections, with doorplate | as described above         |
| <b>Necessary accessories, order separately:</b> |                                       |                            |
| 17 0100 00                                      | Back box solid wall, 1-gang           | see appendix „accessories“ |
| 17 5100 00                                      | Back box partition wall, 1-gang       | see appendix „accessories“ |
| 70 0807 00                                      | Connector, 3-pole                     | see appendix „accessories“ |



# Room lamp, 3 sections

*glass decor*

**77 0175 00**



## Specification

- 3 light sections
- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change and for free selection of signalling colours
- Utility patent (DPMA)
- Design patent (DPMA)
- Easy plug and play installation
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Standard set to channel 0

## Optical signalling

- LED red: Calls
- LED green: Staff group 1
- LED yellow: Staff group 2

## General description

Signal lamp with 3 light sections for optical signalling of all call types and staff presences (2 staff groups).

Suitable for wall mounting in corridors or rooms. Modular design with replaceable decorative glass frame.

Compatible with Flamenco and EccoLine with speech system.

## Technical data

|                        |                         |
|------------------------|-------------------------|
| Dimensions (HxWxD):    | 110 x 150 x 40 mm       |
| Design frame material: | Glass                   |
| Housing material:      | ABS                     |
| Light dome material:   | Styrene-acrylonitrile   |
| Power supply           | 24 V DC                 |
| Current consumption:   | 30 mA per light section |

| Order number                                    | Product name                    | Notes                      |
|---|---------------------------------|----------------------------|
| 77 0175 00                                      | Room lamp, 3 sections           | as described above         |
| <b>Necessary accessories, order separately:</b> |                                 |                            |
| 17 0100 00                                      | Back box solid wall, 1-gang     | see appendix „accessories“ |
| 17 5100 00                                      | Back box partition wall, 1-gang | see appendix „accessories“ |
| 70 0807 00                                      | Connector, 3-pole               | see appendix „accessories“ |

# Room lamp cardiac alarm, WC

*glass decor*

**77 0175 01**



## General description

Signal lamp with 3 light sections as complement to room lamp, order no. 77 0175 00, for optical signalling of cardiac alarms and/or WC calls.

Suitable for wall mounting in corridors or rooms. Modular design with replaceable decorative glass frame.

The signal lamp is installed either in the corridor besides the room lamp (e.g. order no. 77 0175 00) for explicit signalling of WC calls and/or cardiac alarm or it is installed besides the WC door in the patient room for displaying the direction to the WC call.

Compatible with Flamenco and Eccoline with speech system.

## Specification

- 3 light sections
- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change and for free selection of signalling colours
- Utility patent (DPMA)
- Design patent (DPMA)
- Easy plug and play installation
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Standard set to channel 0

## Optical signalling

- LED blue: Cardiac alarm
- LED blue: Cardiac alarm
- LED white: WC call

## Technical data

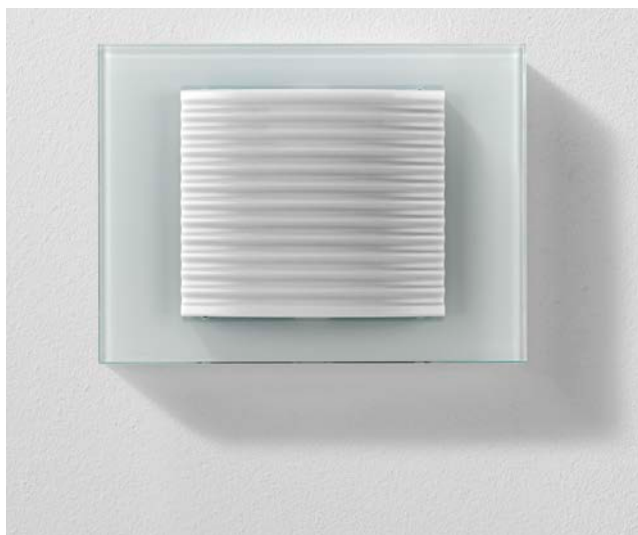
|                        |                         |
|------------------------|-------------------------|
| Dimensions (HxWxD):    | 110 x 150 x 40 mm       |
| Design frame material: | Glass                   |
| Housing material:      | ABS                     |
| Light dome material:   | Styrene-acrylonitrile   |
| Power supply           | 24 V DC                 |
| Current consumption:   | 30 mA per light section |

| Order number                                    | Product name                    | Notes                      |
|---|---------------------------------|----------------------------|
| 77 0175 01                                      | Room lamp cardiac alarm, WC     | as described above         |
| <b>Necessary accessories, order separately:</b> |                                 |                            |
| 17 0100 00                                      | Back box solid wall, 1-gang     | see appendix „accessories“ |
| 17 5100 00                                      | Back box partition wall, 1-gang | see appendix „accessories“ |
| 70 0807 00                                      | Connector, 3-pole               | see appendix „accessories“ |

# Room lamp, 4 sections

*glass decor*

**77 0175 10**



## General description

Signal lamp with 4 light sections for optical signalling of all call types, staff presences (2 staff groups), and for WC call as single display.

Suitable for wall mounting in corridors or rooms. Modular design with replaceable decorative glass frame.

Compatible with Flamenco and EccoLine with speech system.

## Specification

- 4 light sections
- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change and for free selection of signalling colours
- Utility patent (DPMA)
- Design patent (DPMA)
- Easy plug and play installation
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Standard set to channel 0

## Optical signalling

- LED red: Calls
- LED green: Staff group 1
- LED yellow: Staff group 2
- LED white: WC call

## Technical data

|                        |                         |
|------------------------|-------------------------|
| Dimensions (HxWxD):    | 110 x 150 x 40 mm       |
| Design frame material: | Glass                   |
| Housing material:      | ABS                     |
| Light dome material:   | Styrene-acrylonitrile   |
| Power supply           | 24 V DC                 |
| Current consumption:   | 30 mA per light section |

| Order number                                    | Product name                    | Notes                      |
|---|---------------------------------|----------------------------|
| 77 0175 10                                      | Room lamp, 4 sections           | as described above         |
| <b>Necessary accessories, order separately:</b> |                                 |                            |
| 17 0100 00                                      | Back box solid wall, 1-gang     | see appendix „accessories“ |
| 17 5100 00                                      | Back box partition wall, 1-gang | see appendix „accessories“ |
| 70 0807 00                                      | Connector, 3-pole               | see appendix „accessories“ |

# Call switch

77 0211 00...



77 0211 00 A



77 0211 00 C



77 0211 00 F

## General description

Water protected switch with two call buttons with reassurance light for raising calls. The reassurance lights are on with a bright light, when a call was raised. While staff presence is switched on in the

room, an emergency call is raised.

The special design indicates the switch also optically as part of the nurse call system.

Preferably designed for wall mounting.

## Specification

- 2 red call buttons with reassurance light and integrated night location light, red LED
- Easy plug and play installation
- Understandable labelling through clear symbol
- Large touch pads for easy operation
- Standard set to channel 0
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Switch module with locking hooks for fixing on the support ring
- Support ring for screw fixing on a 1-gang back box
- Attractive design frame

## Technical data

|                   |                                   |
|-------------------|-----------------------------------|
| Colour:           | Studio white, similar to RAL 9016 |
| Housing material: | Polycarbonate                     |
| Standby current:  | 7 mA                              |

| Order number                                    | Product name                    | Notes   |
|---|---------------------------------|---|
| 77 0211 00 A                                    | Call switch                     | Dimensions (HxWxD): 91 x 91 x 36 mm                                       |
| 77 0211 00 C                                    | Call switch                     | Design frame made of white glass<br>Dimensions (HxWxD): 107 x 107 x 36 mm |
| 77 0211 00 F                                    | Call switch                     | Dimensions (HxWxD): 80 x 80 x 36 mm                                       |
| <b>Necessary accessories, order separately:</b> |                                 |   |
| 17 0100 00                                      | Back box solid wall, 1-gang     | see appendix „accessories“  |
| 17 5100 00                                      | Back box partition wall, 1-gang | see appendix „accessories“  |
| 70 0807 00                                      | Connector, 3-pole               | see appendix „accessories“  |

# Call switch/WC

## 77 0211 01...



77 0211 01 A



77 0211 01 C



77 0211 01 F

The special design indicates the switch also optically as part of the nurse call system.

Preferably designed for wall mounting.

### Specification

- 2 red call buttons with reassurance light and integrated night location light, red LED
- Easy plug and play installation
- Understandable labelling through clear symbol
- Large touch pads for easy operation
- Standard set to channel 0
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Switch module with locking hooks for fixing on the support ring
- Support ring for screw fixing on a 1-gang back box
- Attractive design frame

### Technical data

|                   |                                   |
|-------------------|-----------------------------------|
| Colour:           | Studio white, similar to RAL 9016 |
| Housing material: | Polycarbonate                     |
| Standby current:  | 7 mA                              |

### General description

Water protected switch with two call buttons with reassurance light for raising WC calls. The reassurance lights are on with a bright light, when a call was raised. While staff presence is switched on in the room, a WC emergency call is raised.

| Order number                                    | Product name                    | Notes   |
|---|---------------------------------|---|
| 77 0211 01 A                                    | Call switch/WC                  | Dimensions (HxWxD): 91 x 91 x 36 mm                                       |
| 77 0211 01 C                                    | Call switch/WC                  | Design frame made of white glass<br>Dimensions (HxWxD): 107 x 107 x 36 mm |
| 77 0211 01 F                                    | Call switch/WC                  | Dimensions (HxWxD): 80 x 80 x 36 mm                                       |
| <b>Necessary accessories, order separately:</b> |                                 |   |
| 17 0100 00                                      | Back box solid wall, 1-gang     | see appendix „accessories“  |
| 17 5100 00                                      | Back box partition wall, 1-gang | see appendix „accessories“  |
| 70 0807 00                                      | Connector, 3-pole               | see appendix „accessories“  |

# Staff presence switch

77 0212 00...



77 0212 00 A



77 0212 00 C



77 0212 00 F

## General description

Water protected switch with two presence buttons with reminder light for switching on and off the staff presence for two different staff groups.

The special design indicates the switch also optically as part of the nurse call system.

Preferably designed for wall mounting.

## Specification

- Green presence button for staff 1 with reminder light, green LED
- Yellow presence button for staff 2 with reminder light, yellow LED
- While staff presence is switched on: Acoustic signalling of forwarded calls and acoustic signalling of announcements (This function is disabled in the factory setting).
- Easy plug and play installation
- Large touch pads for easy operation
- Standard set to channel 0
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Switch module with locking hooks for fixing on the support ring
- Support ring for screw fixing on a 1-gang back box
- Attractive design frame

## Technical data

|                   |                                   |
|-------------------|-----------------------------------|
| Colour:           | Studio white, similar to RAL 9016 |
| Housing material: | Polycarbonate                     |
| Standby current:  | 6 mA                              |

| Order number                                    | Product name                    | Notes   |
|---|---------------------------------|---|
| 77 0212 00 A                                    | Staff presence switch           | Dimensions (HxWxD): 91 x 91 x 36 mm                                       |
| 77 0212 00 C                                    | Staff presence switch           | Design frame made of white glass<br>Dimensions (HxWxD): 107 x 107 x 36 mm |
| 77 0212 00 F                                    | Staff presence switch           | Dimensions (HxWxD): 80 x 80 x 36 mm                                       |
| <b>Necessary accessories, order separately:</b> |                                 |   |
| 17 0100 00                                      | Back box solid wall, 1-gang     | see appendix „accessories“  |
| 17 5100 00                                      | Back box partition wall, 1-gang | see appendix „accessories“  |
| 70 0807 00                                      | Connector, 3-pole               | see appendix „accessories“  |

# Cancel switch/WC

77 0213 00...



77 0213 00 A



77 0213 00 C



77 0213 00 F

## General description

Water protected switch with two cancel buttons with reminder light for cancelling WC calls and WC emergency calls. An integrated beeper for acoustic signalling of forwarded calls, while staff presence is switched on in the room.

The special design indicates the switch also optically as part of the nurse call system.

Preferably designed for wall mounting.

## Specification

- 2 grey cancel buttons with reminder light, yellow LED
- Easy plug and play installation
- Large touch pads for easy operation
- While staff presence is switched on: Acoustic signalling of forwarded calls and acoustic signalling of announcements (This function is disabled in the factory setting).
- Standard set to channel 0
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Switch module with locking hooks for fixing on the support ring
- Support ring for screw fixing on a 1-gang back box
- Attractive design frame

## Technical data

|                   |                                   |
|-------------------|-----------------------------------|
| Colour:           | Studio white, similar to RAL 9016 |
| Housing material: | Polycarbonate                     |
| Standby current:  | 6 mA                              |

| Order number                                    | Product name                    | Notes   |
|---|---------------------------------|---|
| 77 0213 00 A                                    | Cancel switch/WC                | Dimensions (HxWxD): 91 x 91 x 36 mm                                       |
| 77 0213 00 C                                    | Cancel switch/WC                | Design frame made of white glass<br>Dimensions (HxWxD): 107 x 107 x 36 mm |
| 77 0213 00 F                                    | Cancel switch/WC                | Dimensions (HxWxD): 80 x 80 x 36 mm                                       |
| <b>Necessary accessories, order separately:</b> |                                 |   |
| 17 0100 00                                      | Back box solid wall, 1-gang     | see appendix „accessories“  |
| 17 5100 00                                      | Back box partition wall, 1-gang | see appendix „accessories“  |
| 70 0807 00                                      | Connector, 3-pole               | see appendix „accessories“  |

# Cardiac alarm switch

77 0214 00...



77 0214 00 A



77 0214 00 C



77 0214 00 F

## General description

Water protected switch with two alarm buttons with reassurance light for raising cardiac alarms, while the staff presence is switched on in the room. The reassurance

lights are on with a bright light, when a cardiac alarm was raised.

The special design indicates the switch also optically as part of the nurse call system.

Preferably designed for wall mounting.

## Specification

- 2 blue alarm buttons with reassurance light and integrated night location light, red LED
- The night location lights are on, while staff presence is switched on in the room
- Easy plug and play installation
- Understandable labelling through clear symbol
- Large touch pads for easy operation
- Standard set to channel 0
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Switch module with locking hooks for fixing on the support ring
- Support ring for screw fixing on a 1-gang back box
- Attractive design frame

## Technical data

|                   |                                   |
|-------------------|-----------------------------------|
| Colour:           | Studio white, similar to RAL 9016 |
| Housing material: | Polycarbonate                     |
| Standby current:  | 7 mA                              |

| Order number                                    | Product name                    | Notes   |
|---|---------------------------------|---|
| 77 0214 00 A                                    | Cardiac alarm switch            | Dimensions (HxWxD): 91 x 91 x 36 mm                                       |
| 77 0214 00 C                                    | Cardiac alarm switch            | Design frame made of white glass<br>Dimensions (HxWxD): 107 x 107 x 36 mm |
| 77 0214 00 F                                    | Cardiac alarm switch            | Dimensions (HxWxD): 80 x 80 x 36 mm                                       |
| <b>Necessary accessories, order separately:</b> |                                 |   |
| 17 0100 00                                      | Back box solid wall, 1-gang     | see appendix „accessories“  |
| 17 5100 00                                      | Back box partition wall, 1-gang | see appendix „accessories“  |
| 70 0807 00                                      | Connector, 3-pole               | see appendix „accessories“  |



# Pull cord call switch

**77 0215 00...**



77 0215 00 A



77 0215 00 C



77 0215 00 F

## General description

Water protected switch with a red pull cord and call handle for raising calls. Two reassurance lights are on with a bright light, when a call was raised. For additional reassurance a beep sounds when a call is raised. While staff presence is switched on in the room, an emergency call is raised. The special design indicates the switch also optically as part of the nurse call system.

Suitable for wall mounting.

## Specification

- 2.50 m pull cord and call handle with symbol
- 2 red LEDs with two functions as reassurance and night location light
- A beep sounds when a call is raised
- Easy plug and play installation
- Standard set to channel 0
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Switch module with locking hooks for fixing on the support ring
- Support ring for screw fixing on a 1-gang back box
- Attractive design frame

## Technical data

|                   |                                   |
|-------------------|-----------------------------------|
| Colour:           | Studio white, similar to RAL 9016 |
| Housing material: | Polycarbonate                     |
| Standby current:  | 7 mA                              |

| Order number                                    | Product name  | Notes                                 |
|---|---|---------------------------------------|
| 77 0215 00 A                                    | Pull cord call switch                                     | Dimensions (HxWxD): 91 x 91 x 56 mm   |
| 77 0215 00 C                                    | Pull cord call switch<br>Design frame made of white glass | Dimensions (HxWxD): 107 x 107 x 56 mm |
| 77 0215 00 F                                    | Pull cord call switch                                     | Dimensions (HxWxD): 80 x 80 x 56 mm   |
| <b>Necessary accessories, order separately:</b> |   |                                       |
| 17 0100 00                                      | Back box solid wall, 1-gang                               | see appendix „accessories“            |
| 17 5100 00                                      | Back box partition wall, 1-gang                           | see appendix „accessories“            |
| 70 0807 00                                      | Connector, 3-pole   | see appendix „accessories“            |

# Pull cord call switch/WC

77 0215 01...



77 0215 01 A



77 0215 01 C



77 0215 01 F

## General description

Water protected switch with a red pull cord and call handle for raising WC calls. Two reassurance lights are on with a bright light, when a call was raised. For additional reassurance a beep sounds when a call is raised. While staff presence is switched on in the room, a WC emergency call is raised

The special design indicates the switch also optically as part of the nurse call system.

Suitable for wall mounting.

## Specification

- 2.50 m pull cord and call handle with symbol
- 2 red LEDs with two functions as reassurance and night location light
- A beep sounds when a call is raised
- Easy plug and play installation
- Standard set to channel 0
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Switch module with locking hooks for fixing on the support ring
- Support ring for screw fixing on a 1-gang back box
- Attractive design frame

## Technical data

|                   |                                   |
|-------------------|-----------------------------------|
| Colour:           | Studio white, similar to RAL 9016 |
| Housing material: | Polycarbonate                     |
| Standby current:  | 7 mA                              |

| Order number                                    | Product name   | Notes                                 |
|---|--|---------------------------------------|
| 77 0215 01 A                                    | Pull cord call switch/WC                                     | Dimensions (HxWxD): 91 x 91 x 56 mm   |
| 77 0215 01 C                                    | Pull cord call switch/WC<br>Design frame made of white glass | Dimensions (HxWxD): 107 x 107 x 56 mm |
| 77 0215 01 F                                    | Pull cord call switch/WC                                     | Dimensions (HxWxD): 80 x 80 x 56 mm   |
| <b>Necessary accessories, order separately:</b> |  |                                       |
| 17 0100 00                                      | Back box solid wall, 1-gang                                  | see appendix „accessories“            |
| 17 5100 00                                      | Back box partition wall, 1-gang                              | see appendix „accessories“            |
| 70 0807 00                                      | Connector, 3-pole  | see appendix „accessories“            |

# Pneumatic call switch

77 0216 00...



77 0216 00 A



77 0216 00 C



77 0216 00 F

## General description

Water protected switch with an air hose and a red rubber ball for raising calls via pneumatic actuation. Two reassurance lights are on with a bright light, when a call was raised. For additional reassurance a beep sounds when a call is raised. While staff presence is switched on in the room, an emergency call is raised.

The special design indicates the switch also optically as part of the nurse call system.

Preferably designed for wall mounting.

## Specification

- 2 m pull cord and call handle with nurse symbol
- 2 red LEDs with two functions as reassurance and night location light
- A beep sounds when a call is raised
- Easy plug and play installation
- Standard set to channel 0
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Switch module with locking hooks for fixing on the support ring
- Support ring for screw fixing on a 1-gang back box

## Technical data

|                   |                                   |
|-------------------|-----------------------------------|
| Colour:           | Studio white, similar to RAL 9016 |
| Housing material: | Polycarbonate                     |
| Standby current:  | 7 mA                              |

| Order number                                    | Product name   | Notes                                 |
|---|--|---------------------------------------|
| 77 0216 00 A                                    | Pneumatic call switch                                  | Dimensions (HxWxD): 91 x 91 x 56 mm   |
| 77 0216 00 C                                    | Pneumatic call switch Design frame made of white glass | Dimensions (HxWxD): 107 x 107 x 56 mm |
| 77 0216 00 F                                    | Pneumatic call switch                                  | Dimensions (HxWxD): 80 x 80 x 56 mm   |
| <b>Necessary accessories, order separately:</b> |  |                                       |
| 17 0100 00                                      | Back box solid wall, 1-gang                            | see appendix „accessories“            |
| 17 5100 00                                      | Back box partition wall, 1-gang                        | see appendix „accessories“            |
| 70 0807 00                                      | Connector, 3-pole                                      | see appendix „accessories“            |

# Pneumatic call switch/WC

77 0216 01...



77 0216 01 A



77 0216 01 C



77 0216 01 F

## General description

Water protected switch with an air hose and a red rubber ball for raising WC calls via pneumatic actuation. Two reassurance lights are on with a bright light, when a call was raised. For additional reassurance a beep sounds when a call is raised. While staff presence is switched on in the room, a WC emergency call is raised.

The special design indicates the switch also optically as part of the nurse call system.

Preferably designed for wall mounting.

## Specification

- 2 m pull cord and call handle with nurse symbol
- 2 red LEDs with two functions as reassurance and night location light
- A beep sounds when a call is raised
- Easy plug and play installation
- Standard set to channel 0
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Switch module with locking hooks for fixing on the support ring
- Support ring for screw fixing on a 1-gang back box

## Technical data

|                   |                                   |
|-------------------|-----------------------------------|
| Colour:           | Studio white, similar to RAL 9016 |
| Housing material: | Polycarbonate                     |
| Standby current:  | 7 mA                              |

| Order number                                    | Product name  | Notes                                 |
|---|---|---------------------------------------|
| 77 0216 01 A                                    | Pneumatic call switch/WC                                  | Dimensions (HxWxD): 91 x 91 x 56 mm   |
| 77 0216 01 C                                    | Pneumatic call switch/WC Design frame made of white glass | Dimensions (HxWxD): 107 x 107 x 56 mm |
| 77 0216 01 F                                    | Pneumatic call switch/WC                                  | Dimensions (HxWxD): 80 x 80 x 56 mm   |
| <b>Necessary accessories, order separately:</b> |   |                                       |
| 17 0100 00                                      | Back box solid wall, 1-gang                               | see appendix „accessories“            |
| 17 5100 00                                      | Back box partition wall, 1-gang                           | see appendix „accessories“            |
| 70 0807 00                                      | Connector, 3-pole   | see appendix „accessories“            |

# Call switch/WC with cancel switch

77 0217 00...



77 0217 00 A



77 0217 00 C



77 0217 00 F

## General description

Water protected switch with call button with reassurance light for raising WC calls. The reassurance light is on with a bright light, when a call was raised. While staff presence is switched on in the room, a WC emergency call is raised. Furthermore the switch is equipped with a cancel button for cancelling WC calls and WC emergency calls.

The special design indicates the switch also optically as part of the nurse call system.

Preferably designed for wall mounting.

## Specification

- Red call button with symbol with reassurance light and integrated night location light, red LED
- Grey cancel button with reminder light, yellow LED
- While staff presence is switched on: Acoustic signalling of forwarded calls and acoustic signalling of announcements (This function is disabled in the factory setting).
- Easy plug and play installation
- Large touch pads for easy operation
- Standard set to channel 0
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Switch module with locking hooks for fixing on the support ring
- Support ring for screw fixing on a 1-gang back box
- Attractive design frame

## Technical data

|                   |                                   |
|-------------------|-----------------------------------|
| Colour:           | Studio white, similar to RAL 9016 |
| Housing material: | Polycarbonate                     |
| Standby current:  | 6.5 mA                            |

| Order number                                    | Product name                      | Notes   |
|---|-----------------------------------|---|
| 77 0217 00 A                                    | Call switch/WC with cancel switch | Dimensions (HxWxD): 91 x 91 x 36 mm                                       |
| 77 0217 00 C                                    | Call switch/WC with cancel switch | Design frame made of white glass<br>Dimensions (HxWxD): 107 x 107 x 36 mm |
| 77 0217 00 F                                    | Call switch/WC with cancel switch | Dimensions (HxWxD): 80 x 80 x 36 mm                                       |
| <b>Necessary accessories, order separately:</b> |                                   |   |
| 17 0100 00                                      | Back box solid wall, 1-gang       | see appendix „accessories“  |
| 17 5100 00                                      | Back box partition wall, 1-gang   | see appendix „accessories“  |
| 70 0807 00                                      | Connector, 3-pole                 | see appendix „accessories“  |

# Call switch with privacy switch

77 0218 00...



77 0218 00 A



77 0218 00 C



77 0218 00 F

with a privacy button for switching on and off the privacy in the room.

The special design indicates the switch also optically as part of the nurse call system.

Preferably designed for wall mounting.

## Specification

- Red call button with symbol with reassurance light and integrated night location light, red LED
- Grey privacy button for switching on and off the privacy in the room, even if staff presence is switched on in the room. The white LED is on, if the privacy was switched on with the privacy button
- Easy plug and play installation
- Large touch pads for easy operation
- Standard set to channel 0
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Switch module with locking hooks for fixing on the support ring
- Support ring for screw fixing on a 1-gang back box
- Attractive design frame

## Technical data

|                   |                                   |
|-------------------|-----------------------------------|
| Colour:           | Studio white, similar to RAL 9016 |
| Housing material: | Polycarbonate                     |
| Standby current:  | 6.5 mA                            |

## General description

Water protected switch with call button with reassurance light for raising calls. The reassurance light is on with a bright light, when a call was raised. While staff presence is switched on in the room, an emergency call is raised. Furthermore the switch is equipped

| Order number                                    | Product name                    | Notes   |
|---|---------------------------------|---|
| 77 0218 00 A                                    | Call switch with privacy switch | Dimensions (HxWxD): 91 x 91 x 36 mm                                       |
| 77 0218 00 C                                    | Call switch with privacy switch | Design frame made of white glass<br>Dimensions (HxWxD): 107 x 107 x 36 mm |
| 77 0218 00 F                                    | Call switch with privacy switch | Dimensions (HxWxD): 80 x 80 x 36 mm                                       |
| <b>Necessary accessories, order separately:</b> |                                 |   |
| 17 0100 00                                      | Back box solid wall, 1-gang     | see appendix „accessories“  |
| 17 5100 00                                      | Back box partition wall, 1-gang | see appendix „accessories“  |
| 70 0807 00                                      | Connector, 3-pole               | see appendix „accessories“  |

# Staff presence combination with call tone

77 0219 00...



77 0219 00 A



77 0219 00 C



77 0219 00 F

reassurance light is on with a bright light, when a call was raised. While staff presence is switched on in the room, an emergency call is raised. An integrated beeper for acoustic signalling of forwarded calls, while staff presence is switched on in the room.

The special design indicates the switch also optically as part of the nurse call system. Preferably designed for wall mounting.

## Specification

- Green presence button for staff 1 with reminder light, green LED
- Red call button with symbol with reassurance light and integrated night location light, red LED
- While staff presence is switched on: Acoustic signalling of forwarded calls and acoustic signalling of announcement.
- Easy plug and play installation
- Large touch pads for easy operation
- Standard set to channel 0
- Integrated electronic processor for 3-pole plug-in connection to the room bus (RAN)
- Switch module with locking hooks for fixing on the support ring; Support ring for screw fixing on a 1-gang back box

## General description

Water protected switch with one presence button with reminder light for switching on and off the staff presence. Furthermore the switch is equipped with a call button with reassurance light for raising calls. The

## Technical data

Colour: Studio white, similar to RAL 9016  
 Housing material: Polycarbonate

| Order number                                    | Product name                              | Notes   |
|---|---|---|
| 77 0219 00 A                                    | Staff presence combination with call tone | Dimensions (HxWxD): 91 x 91 x 36 mm                                       |
| 77 0219 00 C                                    | Staff presence combination with call tone | Design frame made of white glass<br>Dimensions (HxWxD): 107 x 107 x 36 mm |
| 77 0219 00 F                                    | Staff presence combination with call tone | Dimensions (HxWxD): 80 x 80 x 36 mm                                       |
| <b>Necessary accessories, order separately:</b> |   |   |
| 17 0100 00                                      | Back box solid wall, 1-gang               | see appendix „accessories“  |
| 17 5100 00                                      | Back box partition wall, 1-gang           | see appendix „accessories“  |
| 70 0807 00                                      | Connector, 3-pole                         | see appendix „accessories“  |

# IR TV control module universal

*incl. cable set*

**77 0360 11**



## General description

Interface for the control of a standard TV set using infrared signals. A wide range of TV manufacturers and models are supported, e.g. LG, Philips, Samsung.

Integrated audio amplifier for driving an operator device. The output volume can be adjusted within predefined limits.

The adjustment of the audio level with the TV sets in use has to be taken into account.

Consisting of a control module and an infrared transmitting unit. Mounting directly to the IR input of the TV set.

For the configuration of the control signals the TV set model must be known.

## Specification

- Terminal program for the configuration of the IR TV control module delivered on a USB stick
- Loader for convenient and quick transfer of the configuration to further IR TV control modules
- Integrated interface to the room bus (RAN)
- 2 LEDs indicate the operating state
- Incl. cable set
- The following IR signal modes are supported: RC5/RC5X (e.g. Philips), RC6, SAMSUNG, LG/NEC
- Configuration laptop requirements: Microsoft Windows 10 64 bit or Microsoft Windows 7 64 bit. USB 2.0 connection

## Technical data

Dimensions (HxWxD): 35 x 135 x 90 mm

Weight (without cables): approx. 200 g

Power supply: from the nurse call system (24 VDC)

| Order number | Product name                   | Notes              |
|--------------|--------------------------------|--------------------|
| 77 0360 11   | IR TV control module universal | as described above |



# TV audio amplifier

**77 0365 00**



## General description

Audio amplifier for the distribution of audio signals to max. 4 listening points/beds.

Usable with TV sets with headphone jack.

All required connecting cables and fixing materials are included with delivery.

## Specification

- Up to 4 listening points/beds
- Potential separation according to DIN VDE 0834 and DIN EN 60601-1
- Potentiometer with pin to the outside for volume control
- External 12 V power supply. NOTE TO THE INSTALLATION: A second mains socket is required per TV set for the TV audio amplifier.
- Power LED

## Technical data

Dimensions (HxWxD): 27 x 86 x 70 mm

Weight (without cables): approx. 90 g

Power supply: via external 12 V power supply

| Order number | Product name       | Notes              |
|--------------|--------------------|--------------------|
| 77 0365 00   | TV audio amplifier | as described above |

# ePat<sup>®</sup>lite

**77 0370 00**



## General description

Combined communication and operating device with duplex speech facility for use at the patient bed as part of a nurse call system in accordance with the German standard DIN VDE 0834.

The detached, illuminated, clearly recognizable call button enables secure call triggering at any time.

Comfort functions are controlled via a touch-sensitive interface. Comfort functions include switching and dimming of two light sources, TV control and sound transmission, entertainment transmission as well as blinds control. The additional service call button makes it possible to request non-nursing services.

The clear arrangement and clear symbols of the operating elements ensure safe operation, especially in emergency situations.

High speech quality for open and discreet speech between patient and nursing staff.

## Specification

- Ergonomically shaped housing, particularly suitable for patients with motoric disabilities
- Intuitive operation through simple, understandable symbols
- Excellent speech quality, high-quality microphone and high-quality loudspeaker
- Loudspeaker volume can be adjusted during speech connection
- Red call button incl. reassurance light and integrated location light
- Light key for reading light with location light
- Light key for room light
- Sound transmission (TV/entertainment) optional
- 2 keys for volume control TV/entertainment
- Key for switching TV on/off, status indicator
- Key for switching entertainment on/off and blinds control mode on, status indicator
- 2 keys for program selection TV/entertainment and lowering and raising the blinds
- Service call key for requesting services (system function in preparation, corresponding organization on the ward or in the hospital provided, additional hardware and software components required)
- CLEAN key for locking the touch-sensitive user interface during cleaning
- 1 headphone socket (3.5 mm jack) for connecting a standard headphone (32 Ohm)
- Connection cable with robust plug, 2.5 m cable length
- Mounting bracket for the ePat<sup>®</sup>lite
- Operating surface with antibacterial effect
- Moisture protection for easy cleaning and disinfection

# ePat<sup>®</sup>lite

77 0370 00

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## System requirements

- Connection to connection socket combi, order no. 70 0424 00 or 70 0424 50, or connection socket combi bedhead unit, order no. 70 0434 00 or 70 0434 50
- TV control in combination with RAN interface, order no. 77 0840 00
- Blinds control in combination with RAN interface universal, order no. 77 0848 00

## Scope of supply

- ePat<sup>®</sup>lite
- Mounting bracket for the ePat<sup>®</sup>lite
- Instructions for use for patients
- Cleaning notes

## Technical data

|   |  |
|---|--|
| Dimensions (HxWxD):                                 | 173 x 65 x 27 mm                                   |
| Weight incl. cable:                                 | 190 g  |
| Colour:   | White/black  |
| Housing, call button and mounting bracket material: | ASA+PC   |
| Operating surface material:                         | ABS with PET coating with antibacterial properties |

| Order no.                                       | Product name           | Note                       |
|---|------------------------|----------------------------|
| 77 0370 00                                      | ePat <sup>®</sup> lite | as described above         |
| <b>Optional accessories, order if required:</b> |                        |                            |
| 70 0801 00                                      | Headphone              | see appendix „accessories“ |

# Connection socket ComStation

77 0452 30...



77 0452 30 A

## Specification

- 15 pole socket as data socket
- Prepared for 15 pole plug with mechanical locking mechanism
- Connection unit insert, 15 pole, complete with PCB and plug-in terminals
- 4 plug-in terminals for the connection of the 24 V power supply, wire cross section up to 2.5 mm<sup>2</sup>
- 1 central plate with cut-out
- 1 central plate, blank
- 1 cover frame, 2-gang
- Plug-in terminals for solid wire of  $\varnothing$  0.55 – 1 mm
- Attractive design frame

## General description

Data socket for connection of one of the following products: ComStation<sup>BUS-C</sup>, ComStation<sup>CT</sup> Flamenco, ComStation<sup>T</sup> Flamenco, ComTerminal Flamenco desktop-installation, Terminal Flamenco desktop-installation.

Suitable for 2-gang back boxes.

Preferably designed for wall mounting.

## Technical data

|                |                                   |
|----------------|-----------------------------------|
| Fitting depth: | 30 mm                             |
| Colour:        | Studio white, similar to RAL 9016 |
| Material:      | Polycarbonate                     |
| Power supply:  | 24 V DC                           |
| Contact load:  | max. 3 A                          |

| Order number   | Product name                               | Notes                                |
|--|--|--------------------------------------|
| 77 0452 30 A   | Connection socket ComStation               | Dimensions (HxWxD): 91 x 162 x 79 mm |
| 77 0452 30 F   | Connection socket ComStation               | Dimensions (HxWxD): 80 x 151 x 79 mm |
| <b>Necessary accessories, order separately:</b>          |  |                                      |
| 17 0410 00   | Back box solid wall, 2-gang                | see appendix „accessories“           |
| 17 5400 00   | Back box partition wall, 2-gang            | see appendix „accessories“           |
| <b>Optional accessories, may be ordered if required:</b> |  |                                      |
| 77 0210 61   | Surface mounting box 2-gang for frame A, F |                                      |

# Connection socket ComStation<sup>PC</sup>

77 0452 60...



77 0452 60 A

## General description

Data socket for connection of a ComStation<sup>PC</sup>.

Suitable for 2-gang back boxes.

Data and speech transfer.

Preferably designed for wall mounting.

## Specification

- 15 pole socket as data socket
- Prepared for 15 pole plug with mechanical locking mechanism
- 25 pole SUB D socket, V.24
- Connection unit insert, 15 pole, complete with PCB and plug-in terminals
- 4 plug-in terminals for the connection of the 24 V power supply, wire cross section up to 2.5 mm<sup>2</sup>
- 1 central plate with cut-out
- 1 central plate with SUB D socket
- 1 cover frame, 2-gang
- Plug-in terminals for solid wire of  $\varnothing$  0.55 – 1 mm
- Attractive design frame

## Technical data

|                |                                   |
|----------------|-----------------------------------|
| Fitting depth: | 30 mm                             |
| Colour:        | Studio white, similar to RAL 9016 |
| Material:      | Polycarbonate                     |
| Power supply   | 24 V DC                           |
| Contact load:  | max. 3 A                          |

| Order number   | Product name                               | Notes                                |
|--|--|--------------------------------------|
| 77 0452 60 A   | Connection socket ComStation <sup>PC</sup> | Dimensions (HxWxD): 91 x 162 x 55 mm |
| 77 0452 60 F   | Connection socket ComStation <sup>PC</sup> | Dimensions (HxWxD): 80 x 151 x 55 mm |
| <b>Necessary accessories, order separately:</b>          |  |                                      |
| 17 0410 00   | Back box solid wall, 2-gang                | see appendix „accessories“           |
| 17 5400 00   | Back box partition wall, 2-gang            | see appendix „accessories“           |
| <b>Optional accessories, may be ordered if required:</b> |  |                                      |
| 77 0210 61   | Surface mounting box 2-gang for frame A, F |                                      |

# ComTerminal Flamenco

77 0510 00



## General description

Universal communication terminal with duplex speech facility. Designed for use in patient rooms, duty rooms and function rooms.

Standard equipment includes all control elements for communication between patient and staff.

The innovative front panel made of real glass meets highest requirements for cleaning, operation and design.

Control and monitoring of all room functions in compliance with DIN VDE 0834. Integrated interfaces for direct connection to the group bus (OSYnet) and the room bus (RAN). All connections are established by an integrated connection socket in the ComTerminal.

For maximum operational safety, the basic light-call function will be available for the individual room also

in case of system faults.

Integrated user prompting with flexible and simple to use surface. The plus intuitive menu guidance and backlit display at the ComTerminal provide maximum user comfort.

## System characteristics

- Possible mixed operation with Flamenco systems without speech
- Room bus (RAN) for connection of further operating elements and signalling devices
- Plug-and-play technology for easy handling and short downtimes in case of faults.
- Identification for maximum 6 beds
- Same peripherals for systems with and without speech

## Specification

- Innovative control panel made of real glass with integrated sensors and display elements for easy and intuitive operation
- Surface mounting, plug-in electronic components
- Integrated connection field
- Fully equipped for all applications
- Simple use due to logic and ergonomic control elements with international symbols
- Red call button with symbol, location light and reassurance light
- Blue cardiac alarm button (code blue) with symbol, location light and reassurance light, configurable
- Green large presence button for staff 1, with reminder light
- Yellow large presence button for staff 2, with reminder light
- 4 function keys with situation related functions

# ComTerminal Flamenco

77 0510 00

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## Specification (continuation)

- High-grade graphic display, backlit, 128x64 dot matrix, for displaying calls and information messages
- Excellent speech quality by digital speech processing (DSP technology)
- High-quality loudspeakers and high-end electret microphone
- Integrated configuration menu for selection of room functions and for system parameter setting
- Integrated function monitoring feature with status indication
- International version, language selectable via configuration
- Close and smooth surface, easy to clean and to disinfect
- No data loss during power failure
- Moisture-protected casing

## Technical data

|                     |                                      |
|---------------------|--------------------------------------|
| Dimensions (HxWxD): | 205 x 110 x 34 mm                    |
| Colour:             | White                                |
| Housing material:   | High quality ABS,<br>Front: Glass    |
| Power supply:       | 24 V DC                              |
| Communication net:  | Room bus (RAN)<br>Group bus (OSYnet) |

| Order number                                    | Product name                    | Notes                      |
|---|---------------------------------|----------------------------|
| 77 0510 00                                      | ComTerminal Flamenco            |                            |
| <b>Necessary accessories, order separately:</b> |                                 |                            |
| 17 0410 00                                      | Back box solid wall, 2-gang     | see appendix „accessories“ |
| 17 5400 00                                      | Back box partition wall, 2-gang | see appendix „accessories“ |

# ComTerminal Flamenco, desktop installation

77 0511 00



## General description

Communication terminal with duplex speech facility for desktop installation. Designed for use in doctor's rooms.

Standard equipment includes all control elements for communication between patient and staff.

The innovative front panel made of real glass meets highest requirements for cleaning, operation and design.

Control and monitoring of all room functions in compliance with DIN VDE 0834.

For maximum operational safety, the basic light-call function will be available for the individual room also in case of system faults.

Integrated user prompting with flexible and simple to use surface. The plus intuitive menu guidance and backlit display at the ComTerminal provide maximum user comfort.

## System characteristics

- Possible mixed operation with Flamenco systems without speech
- Plug-and-play technology for easy handling and short downtimes in case of faults.
- Identification for maximum 6 beds
- Same peripherals for systems with and without speech

## Specification

- Innovative control panel made of real glass with integrated sensors and display elements for easy and intuitive operation
- Desktop installation
- 2.5 m connection cable with strain relief
- Connection to the group bus (OSYnet) via Connection socket ComStation.
- Integrated interface for room bus (RAN)
- Fully equipped for all applications
- Simple use due to logic and ergonomic control elements with international symbols
- Red call button with symbol, location light and reassurance light
- Blue cardiac alarm button (code blue) with symbol, location light and reassurance light, configurable
- Green large presence button for staff 1, with reminder light
- Yellow large presence button for staff 2, with reminder light
- 4 function keys with situation related functions
- High-grade graphic display, backlit, 128x64 dot matrix, for displaying calls and information messages
- Excellent speech quality by digital speech processing (DSP technology)
- High-quality loudspeakers and high-end electret microphone



# ComTerminal Flamenco, desktop installation

77 0511 00

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## Specification (continuation)

- Integrated configuration menu for selection of room functions and for system parameter setting
- Integrated function monitoring feature with status indication
- International version, language selectable via configuration
- Close and smooth surface, easy to clean and to disinfect
- No data loss during power failure

## Technical data

|                     |                                      |
|---------------------|--------------------------------------|
| Dimensions (HxWxD): | 30 – 120 x 110 x 240 mm              |
| Colour:             | White                                |
| Material            |                                      |
| - Casing:           | High quality ABS                     |
| - Front panel       | Glass                                |
| - Desktop mount:    | Acrylic glass                        |
| Communication net:  | Room bus (RAN)<br>Group bus (OSYnet) |
| Power supply        | 24 V DC                              |

| Order number                                    | Product name                               | Notes                      |
|---|--|----------------------------|
| 77 0511 00                                      | ComTerminal Flamenco, desktop installation |                            |
| <b>Necessary accessories, order separately:</b> |  |                            |
| 77 0452 30...                                   | Connection socket ComStation               | see appropriate data sheet |

# RoomTerminal Flamenco

**77 0520 00**



## General description

Room terminal designed for universal use in patient rooms, duty rooms and general function rooms, without speech communication.

Standard equipment includes all control elements for operating the nurse call system.

Control and monitoring of all room functions in compliance with DIN VDE 0834. Integrated interfaces for direct connection to the group bus (OSYnet) and the room bus (RAN).

The basic light-call function will be available for the individual room also in case of system faults.

The plus intuitive menu guidance and backlit display at the room terminal provide maximum user comfort.

The close user panel is easy to clean and to disinfect. The robust assembly with all around moisture protec-

tion IP 54 leads to a long life cycle and small follow-up costs.

## System characteristics

- Possible mixed operation with Flamenco systems with speech
- Room bus (RAN) for connection of further operating elements and signalling devices
- Plug-and-play technology for easy handling and short downtimes in case of faults.
- Identification for maximum 6 beds
- Attention tone for announcements
- Upgrade option to a system with speech by displacing the room terminal and corresponding installation preparation
- Same peripherals for systems with and without speech

## Specification

- Ergonomic and attractive design
- Surface mounting, plug-in electronic components
- Integrated connection field
- Fully equipped for all applications
- Simple use due to logic and ergonomic control elements with international symbols
- Red call button with symbol, location light and reassurance light
- Blue cardiac alarm button (code blue) with symbol, location light and reassurance light
- Green presence button for staff 1, with reminder light
- Yellow presence button for staff 2, with reminder light
- 4 function keys with situation related functions

# RoomTerminal Flamenco

77 0520 00

- Page 2 -



## Specification (continuation)

- High-grade graphic display, backlit, 128x64 dot matrix, for displaying calls and information messages
- Integrated configuration menu for selection of room functions and for system parameter setting
- Integrated function monitoring feature with status indication
- International version, language selectable via configuration
- Close and smooth surface, easy to clean and to disinfect
- No data loss during power failure
- Moisture-protected casing

## Technical data

|                     |                                      |
|---------------------|--------------------------------------|
| Dimensions (HxWxD): | 205 x 110 x 34 mm                    |
| Colour:             | White                                |
| Housing material:   | High quality ABS,                    |
| Power supply:       | 24 V DC                              |
| Communication net:  | Room bus (RAN)<br>Group bus (OSYnet) |

| Order number                                    | Product name                    | Notes                      |
|---|---------------------------------|----------------------------|
| 77 0520 00                                      | RoomTerminal Flamenco           |                            |
| <b>Necessary accessories, order separately:</b> |                                 |                            |
| 17 0410 00                                      | Back box solid wall, 2-gang     | see appendix „accessories“ |
| 17 5400 00                                      | Back box partition wall, 2-gang | see appendix „accessories“ |

# RoomTerminal Flamenco, desktop installation

**77 0521 00**



## General description

Room terminal for desktop installation for use in doctor's rooms, without speech communication.

Standard equipment includes all control elements for operating the nurse call system.

Control and monitoring of all room functions in compliance with DIN VDE 0834.

The basic light-call function will be available for the individual room also in case of system faults.

The plus intuitive menu guidance and backlit display at the room terminal provide maximum user comfort.

The close user panel is easy to clean and to disinfect. The robust assembly with all around moisture protection IP 54 leads to a long life cycle and small follow-up costs.

## System characteristics

- Possible mixed operation with Flamenco systems with speech
- Plug-and-play technology for easy handling and short downtimes in case of faults.
- Identification for maximum 6 beds
- Attention tone for announcements

- Upgrade option to a system with speech by displacing the room terminal and corresponding installation preparation
- Same peripherals for systems with and without speech

## Specification

- Ergonomic and attractive design
- Desktop installation
- Connection to the group bus (OSYnet) via Connection socket ComStation
- Integrated interface for room bus (RAN)
- Fully equipped for all applications
- Simple use due to logic and ergonomic control elements with international symbols
- Red call button with symbol, location light and reassurance light
- Blue cardiac alarm button (code blue) with symbol, location light and reassurance light
- Green presence button for staff 1, with reminder light
- Yellow presence button for staff 2, with reminder light
- 4 function keys with situation related functions
- High-grade graphic display, backlit, 128x64 dot matrix, for displaying calls and information messages
- Integrated configuration menu for selection of room functions and for system parameter setting
- Integrated function monitoring feature with status indication
- International version, language selectable via configuration
- Close and smooth user surface, easy to clean and to disinfect
- No data loss during power failure

# RoomTerminal Flamenco, desktop installation

77 0521 00

- Page 2 -



## Technical data

|                     |                                      |
|---------------------|--------------------------------------|
| Dimensions (HxWxD): | 30 – 120 x 110 x 240 mm              |
| Colour:             | White                                |
| Material            |                                      |
| - Casing:           | High quality ABS                     |
| - Front panel       | Membrane keys                        |
| - Desktop mount:    | Acrylic glass, transparent           |
| Communication net:  | Room bus (RAN)<br>Group bus (OSYnet) |
| Power supply        | 24 V DC                              |

| Order number                                    | Product name                                | Notes                      |
|---|---|----------------------------|
| 77 0521 00                                      | RoomTerminal Flamenco, desktop installation |                            |
| <b>Necessary accessories, order separately:</b> |   |                            |
| 77 0452 30...                                   | Connection socket ComStation                | see appropriate data sheet |

# ControlTerminal Flamenco

77 0550 00



## General description

Control terminal for universal use for patient rooms, duty rooms and general function rooms, without speech communication. The ControlTerminal contains a room lamp and is installed in the corridor instead of an additional room lamp.

Designed for mounting in standard back boxes, 2-gang.

For mounting an additional installation kit, order no. 77 0960 00, is required (not included). The needed parameters are set up using a software tool - the ControlTerminal ConfigSet, order no. 77 0920 00.

Equipped with all functions for local control of the nurse call system. The ControlTerminal controls and monitors all room functions in compliance with DIN VDE 0834. Integrated interfaces for direct connection to the group bus (OSYnet) and the room bus (RAN).

The basic light-call function will be available for the individual room also in case of system faults.

## System characteristics

- Possible mixed operation with Flamenco systems with speech
- Room bus (RAN) for connection of further operating elements and signalling devices
- Plug-and-play technology for easy handling and short downtimes in case of faults.
- Identification for maximum 6 beds
- Same peripherals for systems with and without speech
- Integrated room lamp with 4 light sections for optical signalling of all call types, staff presences (2 staff groups), and for WC call as single display.

## Specification

- Surface mounting, plug-in electronic components
- Integrated connection field
- Integrated function monitoring feature with status indication
- No data loss during power failure
- 4 light sections
- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change and for free selection of signalling colours
- Utility patent (DPMA)
- Design patent (DPMA)

## Optical signalling

- LED red: Calls
- LED green: Staff group 1
- LED yellow: Staff group 2
- LED white: WC call

# ControlTerminal Flamenco

77 0550 00

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## Technical data

|                      |                                      |
|----------------------|--------------------------------------|
| Dimensions (HxWxD):  | 110 x 150 x 40 mm                    |
| Colour:              | Silver                               |
| Housing material:    | ABS                                  |
| Light dome material: | Styrene-acrylonitrile                |
| Power supply         | 24 V DC                              |
| Communication net:   | Room bus (RAN)<br>Group bus (OSYnet) |

| Order number                                    | Product name                     | Notes                      |
|---|----------------------------------|----------------------------|
| 77 0550 00                                      | ControlTerminal Flamenco         |                            |
| <b>Necessary accessories, order separately:</b> |                                  |                            |
| 77 0960 00                                      | ControlTerminal installation kit | see appendix „accessories“ |
| 77 0920 00                                      | ControlTerminal ConfigSet        | see appropriate data sheet |
| 17 0410 00                                      | Back box solid wall, 2-gang      | see appendix „accessories“ |
| 17 5400 00                                      | Back box partition wall, 2-gang  | see appendix „accessories“ |

# ControlTerminal Flamenco

*glass decor*

**77 0555 00**



## General description

Control terminal for universal use for patient rooms, duty rooms and general function rooms, without speech communication. The ControlTerminal contains a room lamp with decorative glass frame and is installed in the corridor instead of an additional room lamp.

Designed for mounting in standard back boxes, 2-gang.

For mounting an additional installation kit, order no. 77 0960 00, is required (not included). The needed parameters are set up using a software tool - the ControlTerminal ConfigSet, order no. 77 0920 00.

Equipped with all functions for local control of the nurse call system. The ControlTerminal controls and monitors all room functions in compliance with DIN VDE 0834. Integrated interfaces for direct connection to the group bus (OSYnet) and the room bus (RAN).

The basic light-call function will be available for the individual room also in case of system faults.

## System characteristics

- Possible mixed operation with Flamenco systems with speech
- Room bus (RAN) for connection of further operating elements and signalling devices
- Plug-and-play technology for easy handling and short downtimes in case of faults.
- Identification for maximum 6 beds
- Same peripherals for systems with and without speech
- Integrated room lamp with 4 light sections for optical signalling of all call types, staff presences (2 staff groups), and for WC call as single display.

## Specification

- Surface mounting, plug-in electronic components
- Integrated connection field
- Integrated function monitoring feature with status indication
- No data loss during power failure
- 4 light sections
- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change and for free selection of signalling colours
- Utility patent (DPMA)
- Design patent (DPMA)

## Optical signalling

- LED red: Calls
- LED green: Staff group 1
- LED yellow: Staff group 2
- LED white: WC call

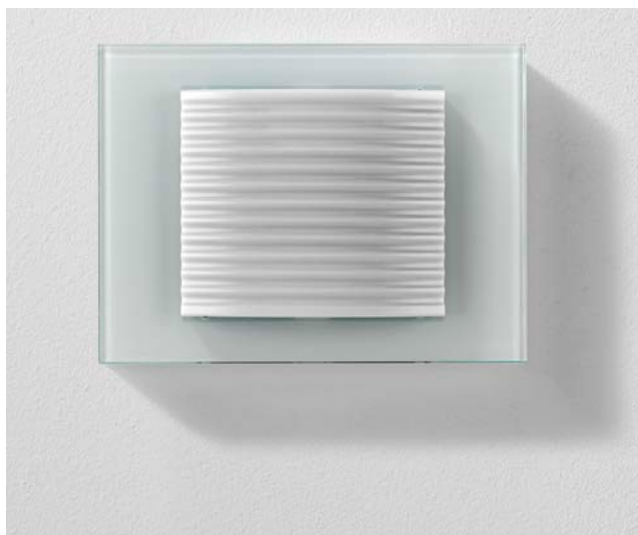


# ControlTerminal Flamenco

*glass decor*

**77 0555 00**

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## Technical data

|                        |                                      |
|------------------------|--------------------------------------|
| Dimensions (HxWxD):    | 110 x 150 x 40 mm                    |
| Design frame material: | Glass                                |
| Housing material:      | ABS                                  |
| Light dome material:   | Styrene-acrylonitrile                |
| Power supply           | 24 V DC                              |
| Communication net:     | Room bus (RAN)<br>Group bus (OSYnet) |

| Order number                                    | Product name                     | Notes                      |
|---|----------------------------------|----------------------------|
| 77 0555 00                                      | ControlTerminal Flamenco         |                            |
| <b>Necessary accessories, order separately:</b> |                                  |                            |
| 77 0960 00                                      | ControlTerminal installation kit | see appendix „accessories“ |
| 77 0920 00                                      | ControlTerminal ConfigSet        | see appropriate data sheet |
| 17 0410 00                                      | Back box solid wall, 2-gang      | see appendix „accessories“ |
| 17 5400 00                                      | Back box partition wall, 2-gang  | see appendix „accessories“ |

# ControlTerminal with doorplate Flamenco

**77 0551 00**



## General description

Control terminal for universal use for patient rooms, duty rooms and general function rooms, without speech communication. The ControlTerminal contains a room lamp and is installed in the corridor instead of an additional room lamp. Doorplate as label field for room designation.

Designed for mounting in standard back boxes, 2-gang.

For mounting an additional installation kit, order no. 77 0960 00, is required (not included). The needed parameters are set up using a software tool - the ControlTerminal ConfigSet, order no. 77 0920 00.

Equipped with all functions for local control of the nurse call system. The ControlTerminal controls and monitors all room functions in compliance with DIN VDE 0834. Integrated interfaces for direct connection to the group bus (OSYnet) and the room bus (RAN).

The basic light-call function will be available for the individual room also in case of system faults.

## System characteristics

- Possible mixed operation with Flamenco systems with speech
- Room bus (RAN) for connection of further operating elements and signalling devices
- Plug-and-play technology for easy handling and short downtimes in case of faults.
- Identification for maximum 6 beds
- Same peripherals for systems with and without speech
- Integrated room lamp with 4 light sections for optical signalling of all call types, staff presences (2 staff groups), and for WC call as single display.

## Specification

- Surface mounting, plug-in electronic components
- Integrated connection field
- Integrated function monitoring feature with status indication
- No data loss during power failure
- 4 light sections
- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change and for free selection of signalling colours
- Utility patent (DPMA)
- Design patent (DPMA)
- Integrated label field for room designation

## Optical signalling

- LED red: Calls
- LED green: Staff group 1
- LED yellow: Staff group 2
- LED white: WC call

# ControlTerminal with doorplate Flamenco

77 0551 00

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## Technical data

|                      |                                      |
|----------------------|--------------------------------------|
| Dimensions (HxWxD):  | 190 x 150 x 40 mm                    |
| Label field (HxW):   | approx. 70 x 92 mm                   |
| Colour:              | Silver                               |
| Housing material:    | ABS                                  |
| Light dome material: | Styrene-acrylonitrile                |
| Power supply         | 24 V DC                              |
| Communication net:   | Room bus (RAN)<br>Group bus (OSYnet) |

| Order number                                    | Product name                            | Notes                      |
|---|---|----------------------------|
| 77 0551 00                                      | ControlTerminal with doorplate Flamenco |                            |
| <b>Necessary accessories, order separately:</b> |   |                            |
| 77 0960 00                                      | ControlTerminal installation kit        | see appendix „accessories“ |
| 77 0920 00                                      | ControlTerminal ConfigSet               | see appropriate data sheet |
| 17 0410 00                                      | Back box solid wall, 2-gang             | see appendix „accessories“ |
| 17 5400 00                                      | Back box partition wall, 2-gang         | see appendix „accessories“ |

# ComStation<sup>PC</sup>

77 0602 00



## General description

Screen based version of a ward console for decentralised processing of all functions within a ward.

Separate arrangement of control and operating systems. Ergonomic design as a PC workstation and furnished with all components required for its full operation. Control unit designed for use on desktop.

Ready for operation with Flamenco system and prepared for connection to the group bus (OSYnet).

## Components

- Speech communication via desktop speech unit with integrated handset
- Interface to the system computer
- System computer (order no. 80 6010 00D)
- LCD monitor 19" (order no. 80 6049 00)
- UPS 600 VA/360 W (order no. 21 9000 00)
- PrimusGlobal+ „ComStation<sup>PC</sup>“ (order no. 77 0701 00)

## Features

Display and processing of the nurse call system's installed functions for the ward:

- Normal calls, emergency calls, cardiac alarm (code blue)
- Display of caller's location
- Staff presence
- Bed identification
- Call status (fresh / answered)

## Additional information

- Date / time
- Speech control and speech status
- Technical system messages

## Announcements

- Flexible set-up of announcements, arranged according to rooms, areas, as single or collective announcements, to all rooms or only to rooms with activated staff presence

## Control of operating modes

- Dezentralbetrieb
- Ward coupling
- Free definable operating modes

# ComStation<sup>PC</sup>

**77 0602 00**



## Software maintenance contract

The acquiring of the system software PrimusGlobal+ is combined with placing of a software administration contract with costs. The administration contract is an important prerequisite for an optimal and long-term use of the user software.

Scope of services:

- Regular updates of PrimusGlobal+ software
- Revisions in configuration and adaptations to ongoing developments
- Remote maintenance: Comfortable error analysis and correction online
- Telephone hotline during business hours of Tunstall GmbH

| Order number                                    | Product name                               | Notes                      |
|---|--|----------------------------|
| 77 0602 00                                      | ComStation <sup>PC</sup>                   |                            |
| <b>Necessary accessories, order separately:</b> |  |                            |
| 77 0452 60A                                     | Connection socket ComStation <sup>PC</sup> | see appendix „accessories“ |

# ComStation<sup>BUS-C</sup>

77 0605 50



## General description

The ComStation<sup>BUS-C</sup> is a ward console for the nurse station, designed for answering and handling calls and to support nursing service.

The ComStation<sup>BUS-C</sup> is equipped with microphone, loudspeaker and handset for speech communication. The ComStation<sup>BUS-C</sup> is operated using select buttons and navigation buttons, supported by a colour-graphic multifunction display. System messages and additional information can be displayed as well.

Various configuration options in the nurse call system's control unit allow a flexible adaptation to different nursing requirements.

An intelligent speech processor ensures excellent speech quality and intelligibility for all operating modes.

## Specification

- Ward console configured for standard ward operation
- Call answering and call handling
- Automatic answering according to priority
- Announcements
- Enabling and disabling of ward coupling
- Enabling and disabling of shifts
- Display of system messages
- Handset or hands-free speech
- 5.7 inch multi-functional colour display, resolution 640x480, LED illuminated
- Operation using select buttons as soft keys
- Plastic foil keypad
- Desktop or wall mounting
- Connection to the group bus (OSYnet) via Connection Socket ComStation
- Handset
- Output for staff presence
- Output for external call tone
- Prepared for future expansions

## Technical data

|                     |                     |
|---------------------|---------------------|
| Dimensions (HxWxD): | 55 x 273 x 185 mm   |
| Colour:             | light grey RAL 7035 |
| Housing material:   | ABS                 |
| Power supply        | 24 V DC             |

| Order number                                    | Product name                 | Notes                      |
|---|------------------------------|----------------------------|
| 77 0605 50                                      | ComStation <sup>BUS-C</sup>  |                            |
| <b>Necessary accessories, order separately:</b> |                              |                            |
| 77 0452 30...                                   | Connection socket ComStation | see appropriate data sheet |

# ComStation<sup>CT</sup> Flamenco

77 0606 00



## General description

Desktop terminal with duplex speech facility. Designed for installation in the nurse station. Preferably intended for handling calls. Raising calls or cardiac alarms (code blue) for requesting additional staff is possible. Enabling or disabling ward coupling or zone nursing.

The innovative front panel made of real glass meets highest requirements for cleaning, operation and design.

Control and monitoring of all room functions in compliance with DIN VDE 0834.

For maximum operational safety, the basic light-call function will be available for the individual room also in case of system faults.

For maximum operational safety, the basic light-call function will be available for the individual room also in case of system faults.

Integrated user prompting with flexible and simple to use surface. The plus intuitive menu guidance and backlit display at the ComStation<sup>CT</sup> provide maximum user comfort.

## System characteristics

- Possible mixed operation with Flamenco systems without speech
- Plug-and-play technology for easy handling and short downtimes in case of faults.

## Specification

- Innovative control panel made of real glass with integrated sensors and display elements for easy and intuitive operation
- Desktop installation
- 2.5 m connection cable with strain relief
- Connection to the group bus OSYnet via Connection socket ComStation
- Integrated interface for room bus (RAN)
- Fully equipped for all applications
- Simple use due to logic and ergonomic control elements with international symbols
- Red call button with symbol, location light and reassurance light
- Blue cardiac alarm button (code blue) with symbol, location light and reassurance light, configurable
- Green large presence button for staff 1, with reminder light
- Yellow large presence button for staff 2, with reminder light
- 4 function keys with situation related functions
- Enabling and disabling of ward coupling
- Enabling and Disabling of shifts
- Display of call system faults with fault location
- High-grade graphic display, backlit, 128x64 dot matrix, for displaying calls and information messages

# ComStation<sup>CT</sup> Flamenco

77 0606 00

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## Specification (continuation)

- Excellent speech quality by digital speech processing (DSP technology)
- High-quality loudspeakers and high-end electret microphone
- Integrated configuration menu for system parameter setting
- Integrated function monitoring feature with status indication
- International version, language selectable via configuration
- Close and smooth surface, easy to clean and to disinfect
- No data loss during power failure

## Technical data

|                     |                                      |
|---------------------|--------------------------------------|
| Dimensions (HxWxD): | 30 – 120 x 110 x 240 mm              |
| Colour:             | White                                |
| Material            |                                      |
| - Casing:           | High quality ABS                     |
| - Front panel       | Glass                                |
| - Desktop mount:    | Acrylic glass                        |
| Communication net:  | Room bus (RAN)<br>Group bus (OSYnet) |
| Power supply        | 24 V DC                              |

| Order number                                    | Product name                      | Notes                      |
|---|-----------------------------------|----------------------------|
| 77 0606 00                                      | ComStation <sup>CT</sup> Flamenco |                            |
| <b>Necessary accessories, order separately:</b> |                                   |                            |
| 77 0452 30...                                   | Connection socket ComStation      | see appropriate data sheet |



# ComStation<sup>T</sup> Flamenco

77 0606 20



## General description

Desktop terminal designed for installation in the nurse station. Preferably intended for handling calls. Raising calls or cardiac alarms (code blue) for requesting additional staff is possible. Enabling or disabling ward coupling or zone nursing.

Control and monitoring of all room functions in compliance with DIN VDE 0834.

For maximum operational safety, the basic light-call function will be available for the individual room also in case of system faults.

Integrated user prompting with flexible and simple to use surface. The plus intuitive menu guidance and backlit display at the ComStation<sup>T</sup> provide maximum user comfort.

The innovative membrane front panel meets highest requirements for cleaning, operation and design.

## System characteristics

- Possible mixed operation with Flamenco systems with speech
- Plug-and-play technology for easy handling and short downtimes in case of faults.

## Specification

- Innovative control panel made of membrane switches and display elements for easy and intuitive operation
- Desktop installation
- 2.5 m connection cable with strain relief
- Connection to the group bus OSYnet via Connection socket ComStation
- Integrated interface for room bus (RAN)
- Fully equipped for all applications
- Simple use due to logic and ergonomic control elements with international symbols
- Red call button with symbol, location light and reassurance light
- Blue cardiac alarm button (code blue) with symbol, location light and reassurance light
- Green presence button for staff 1, with reminder light
- Yellow presence button for staff 2, with reminder light
- 4 function keys with situation related functions
- Enabling and disabling of ward coupling
- Enabling and Disabling of shifts
- Display of call system faults with fault location
- High-grade graphic display, backlit, 128x64 dot matrix, for displaying calls and information messages
- Integrated configuration menu for system parameter setting
- Integrated function monitoring feature with status indication
- International version, language selectable via configuration
- Close and smooth user surface, easy to clean and to disinfect
- No data loss during power failure

# ComStation<sup>T</sup> Flamenco

77 0606 20

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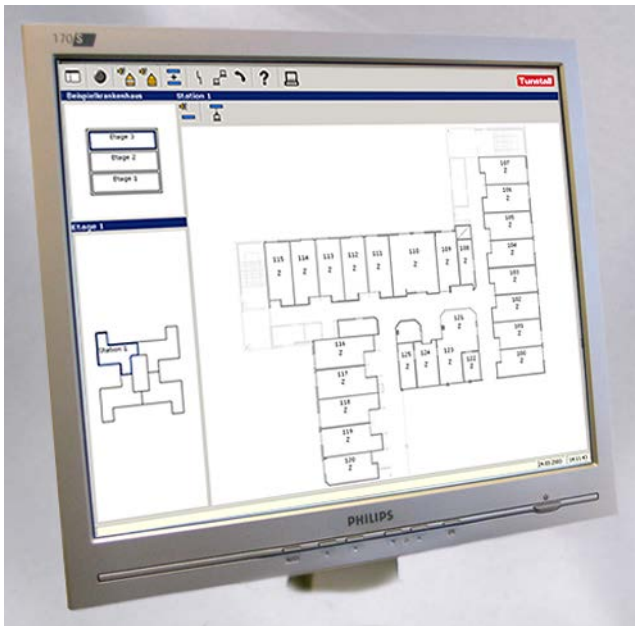
## Technical data

|                     |                            |
|---------------------|----------------------------|
| Dimensions (HxWxD): | 30 – 120 x 110 x 240 mm    |
| Colour:             | White                      |
| Material            |                            |
| - Casing:           | High quality ABS           |
| - Front panel       | Membrane keys              |
| - Desktop mount:    | Acrylic glass, transparent |
| Communication net:  | Room bus (RAN)             |
|                     | Group bus (OSYnet)         |
| Power supply        | 24 V DC                    |

| Order number                                    | Product name                     | Notes                      |
|---|----------------------------------|----------------------------|
| 77 0606 20                                      | ComStation <sup>T</sup> Flamenco |                            |
| <b>Necessary accessories, order separately:</b> |                                  |                            |
| 77 0452 30...                                   | Connection socket ComStation     | see appropriate data sheet |

# ManagementCenter<sup>PC</sup>

77 0610 00



## General description

Screen based central console for central processing of all functions within the nurse call system.

Separate arrangement of control and operating unit. Ergonomic design as a PC workstation, furnished with all components required for its full operation. Operation unit designed for desktop installation.

Ready for the operation with the Flamenco system. In systems with OSY-ControlCenter the ManagementCenter is prepared for connecting to the OSY-ControlCenter. In systems with IP-SystemManagers the ManagementCenter is prepared for the connection to a separate IP-SystemManager running function module VOIP GATE and for the connection to the IP network of the nurse call system.

## Components

- Speech communication via desktop speech unit with integrated handset
- Interface to the system computer
- System computer (order no. 80 6010 00D)
- LCD monitor 19" (order no. 80 6049 00)
- UPS 600 VA/360 W (order no. 21 9000 00)
- PrimusGlobal+ „ManagementCenter<sup>PC</sup>“ (order no. 77 0700 00)
- Additional software modules available.

## Features (extract)

Display and processing of nurse call system's installed functions:

- Normal calls, emergency calls, cardiac alarm (code blue)
- Display of caller's location
- Staff presence
- Bed identification
- Call status (fresh / answered)

## Additional information

- Date / time
- Speech control and speech status
- Technical system messages
- External system messages via interfaces

## Announcements

- Flexible set-up of announcements, arranged according to rooms, wards, areas, as single or collective announcements, to all rooms or only to rooms with activated staff presence

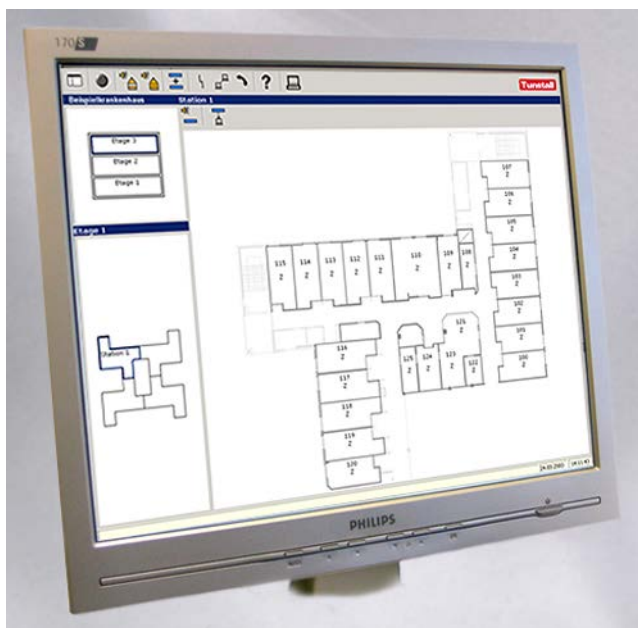
## Control of operating modes

- Centralised mode / ward mode
- Ward coupling
- Free definable operating modes

# ManagementCenter<sup>PC</sup>

77 0610 00

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## Software maintenance contract

The acquiring of the system software PrimusGlobal+ is combined with placing of a software administration contract with costs. The administration contract is an important prerequisite for an optimal and long-term use of the user software.

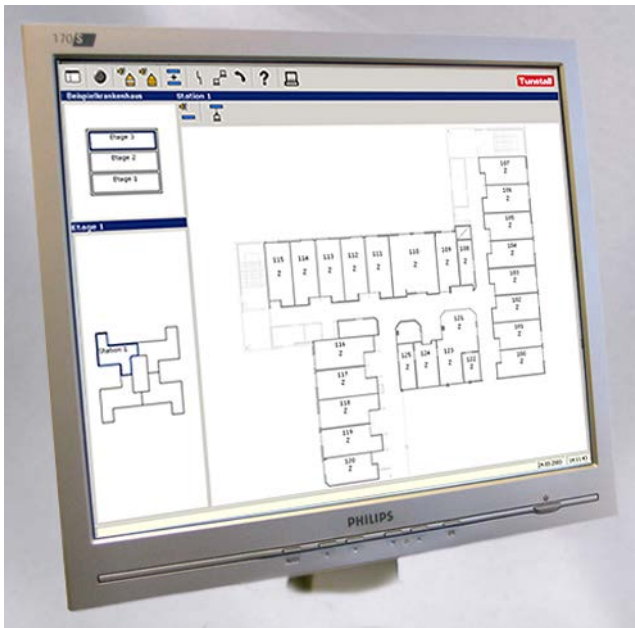
Scope of services:

- Regular updates of PrimusGlobal+ software
- Revisions in configuration and adaptations to ongoing developments
- Remote maintenance: Comfortable error analysis and correction online
- Telephone hotline during business hours of Tunstall GmbH

| Order number                                    | Product name                                | Notes                      |
|---|---|----------------------------|
| 77 0610 00                                      | ManagementCenter <sup>PC</sup>              |                            |
| <b>Necessary accessories, order separately:</b> |   |                            |
| 76 2100 00                                      | IP-SystemManager                            | see appropriate data sheet |
| 76 0743 00                                      | Function module VOIP GATE                   | see appropriate data sheet |
| <b>Required services, order separately:</b>     |   |                            |
| 77 0790 00                                      | PrimusGlobal+ System set-up & configuration | see appendix „services“    |
| 77 0790 01                                      | PrimusGlobal+ project data, block graphics  | see appendix „services“    |
| 77 0790 02                                      | PrimusGlobal+ project data, layout graphics | see appendix „services“    |

# PrimusGlobal+ „ManagementCenter“

77 0700 00



## General description

PrimusGlobal+ “ManagementCenter” is a software especially for central consoles in Flamenco nurse call systems. All features for central processing of all call system functions are provided, easy to operate.

According to requirements the central console can be designed as a screen based console or additionally with push buttons.

Wards and rooms can be displayed as simple graphic elements or on the basis of floor plans.

Several console workstations can work in a network compound. To support call handling person related data, such as care data, name, extension number, can be accessed.

All system events can be recorded and stored, filtered and exported to other applications.

As supplement other modules from the Primus-Global+ software family are available.

Linking to the nurse call system is function-monitored in compliance with DIN VDE 0834.

## Base

- Microsoft Windows operating system
- Data interface to Flamenco nurse call system
- Data base for storing all system data and customer specific data
- Software interface for remote maintenance of the system
- User interface to the nurse call system
- Connection and synchronisation of external push buttons
- Graphic display of wards, areas and rooms, hierarchically structured.
- Texts and graphics scalable

## Features (extract)

Display and processing of calling system’s installed functions:

- Normal calls, emergency calls, cardiac alarm (code blue)
- Display of caller’s location
- Staff presence
- Bed identification
- Call status (fresh / answered)

## Additional information

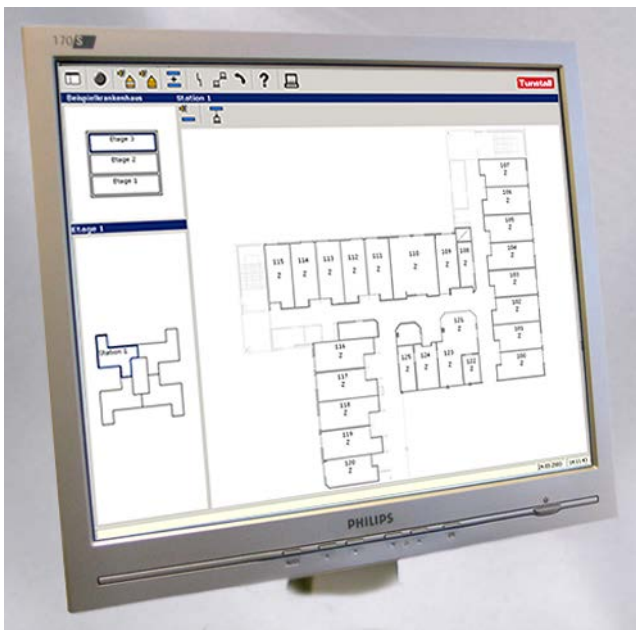
- Date / time
- Speech control and speech status
- Technical system messages
- External system messages via interfaces

## Announcements

- Flexible set-up of announcements, arranged according to rooms, wards, areas, as single or collective announcements, to all rooms or only to rooms with activated staff presence

# PrimusGlobal+ „ManagementCenter“

77 0700 00



## Control of operating modes

- Centralised mode / ward mode
- Ward coupling
- Free definable operating modes

## Multi-station operation

The connected wards can be allocated to several call handling stations. The system allows for the distribution to several work stations but also the concentration on one console (e.g. during night shifts).

## Care data

A database for saving, processing and documenting of person-related care data is provided in support of call handling. The data may comprise details such as names, nursing information and other practical data for the use by nursing staff. Data management takes place directly from the call handling console.

## Call recording

To support care documentation, all call data, presence of staff, and system events can be recorded. Data storage is effected with date, time plus relevant information as to the data source such as ward and room. Filtering and sorting of data can be selected for numerous combinations of criteria.

## Software maintenance contract

The acquiring of the system software PrimusGlobal+ is combined with placing of a software administration contract with costs. The administration contract is an important prerequisite for an optimal and long-term use of the user software.

Scope of services:

- Regular updates of PrimusGlobal+ software
- Revisions in configuration and adaptations to ongoing developments
- Remote maintenance: Comfortable error analysis and correction online
- Telephone hotline during business hours of Tunstall GmbH

| Order number                                | Product name                                | Notes                   |
|---|---|-------------------------|
| 77 0700 00                                  | PrimusGlobal+ „ManagementCenter“            |                         |
| <b>Required services, order separately:</b> |   |                         |
| 77 0790 00                                  | PrimusGlobal+ System set-up & configuration | see appendix „services“ |
| 77 0790 01                                  | PrimusGlobal+ project data, block graphics  | see appendix „services“ |
| 77 0790 02                                  | PrimusGlobal+ project data, layout graphics | see appendix „services“ |

# PrimusGlobal+ „ComStation<sup>PC</sup>“

77 0701 00



## General description

PrimusGlobal+ „ComStation<sup>PC</sup>“ is a software especially for ward consoles in Flamenco nurse call systems. All features for processing of all nurse call system functions within the ward are provided, easy to operate.

Rooms and potential other wards can be displayed as simple graphic elements or on the basis of floor plans.

To support call handling person related data, such as care data, name, extension number, can be accessed.

Linking to the nurse call system is function-monitored in compliance with DIN VDE 0834.

## Basis

- Microsoft Windows operating system
- Data interface to Flamenco nurse call system
- Data base for storing all system data and customer specific data
- Software interface for remote maintenance of the system
- User interface to the nurse call system
- Graphic display of wards, rooms and areas in a hierarchic manner

- Texts and graphics scalable

## Features (extract)

Display and processing of the calling system's installed functions for the ward:

- Normal calls, emergency calls, cardiac alarm (code blue)
- Display of caller's location
- Staff presence
- Bed identification
- Call status (fresh / answered)

## Additional information

- Date / time
- Speech control and speech status
- Technical system messages
- External system messages via interfaces

## Announcements

- Flexible set-up of announcements, arranged according to rooms, wards, areas, as single or collective announcements, to all rooms or only to rooms with activated staff presence

## Control of operating modes

- Centralised mode / ward mode
- Ward coupling
- Free definable operating modes

## Care data

A database for saving, processing and documenting of person-related care data is provided in support of call handling. The data may comprise details such as names, nursing information and other practical data for the use by nursing staff. Data management takes place directly from the call handling console.

# PrimusGlobal+ „ComStation<sup>PC</sup>“

77 0701 00



## Software maintenance contract

The acquiring of the system software PrimusGlobal+ is combined with placing of a software administration contract with costs. The administration contract is an important prerequisite for an optimal and long-term use of the user software.

Scope of services:

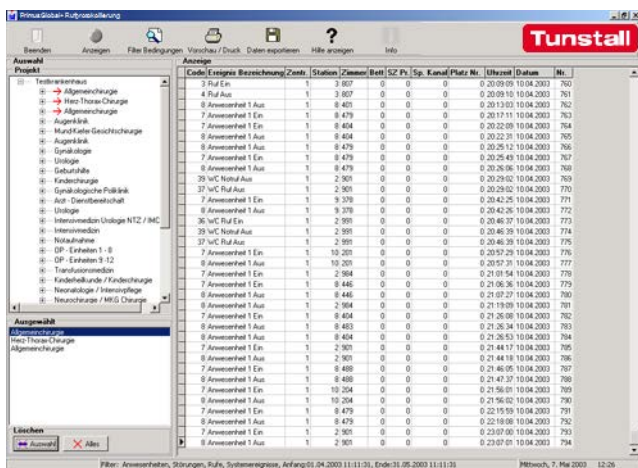
- Regular updates of PrimusGlobal+ software
- Revisions in configuration and adaptations to ongoing developments
- Remote maintenance: Comfortable error analysis and correction online
- Telephone hotline during business hours of Tunstall GmbH

| Order number                                | Product name                                | Notes                   |
|---|---|-------------------------|
| 77 0701 00                                  | PrimusGlobal+ „ComStation <sup>PC</sup> “   |                         |
| <b>Required services, order separately:</b> |   |                         |
| 77 0790 00                                  | PrimusGlobal+ System set-up & configuration | see appendix „services“ |
| 77 0790 01                                  | PrimusGlobal+ project data, block graphics  | see appendix „services“ |
| 77 0790 02                                  | PrimusGlobal+ project data, layout graphics | see appendix „services“ |



# PrimusGlobal+ „Call recording“

77 0710 00



## General description

PrimusGlobal+ “Call recording” is a software for Flamenco nurse call system for supporting the care documentation.

All call data, staff registrations and system events are recorded. Data storage is effected with date, time plus relevant information as to the data source such as ward or room.

Filtering and sorting of data can be selected for numerous combinations of criteria.

For succeeding post-processing and analysis there is an export function to convenient office applications.

## Basis

- Microsoft Windows operating system
- Data interface to the Flamenco nurse call system
- Data base for storing all system data and customer specific data
- Software interface for remote maintenance of the system
- User interface to the nurse call system

## Features

- Permanent recording of all system events
- Selection of locations (wards, rooms etc.) to analyse
- Filtering data according to event time
- Filtering data according to event type (calls, presences, other events)
- Filtering data according to actions taken
- Selection of parameter for display
- Sorting the data
- Print feature
- Export feature to convenient office packages, CSV format.

## Software maintenance contract

The acquiring of the system software PrimusGlobal+ is combined with placing of a software administration contract with costs. The administration contract is an important prerequisite for an optimal and long-term use of the user software.

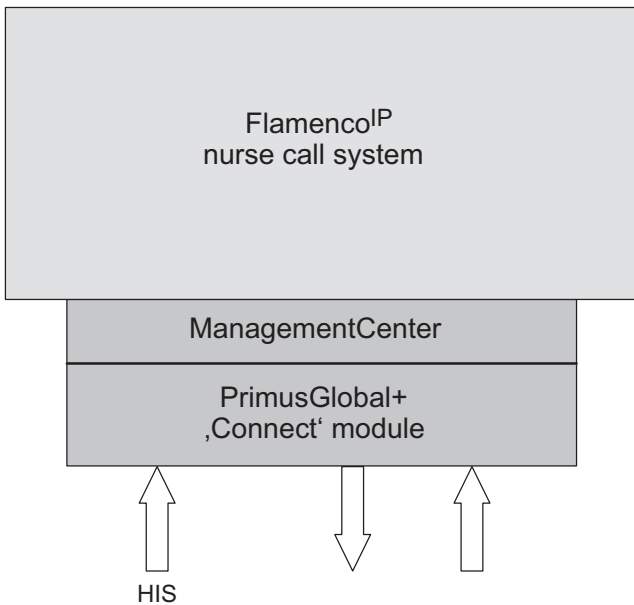
Scope of services:

- Regular updates of PrimusGlobal+ software
- Revisions in configuration and adaptations to ongoing developments
- Remote maintenance: Comfortable error analysis and correction online
- Telephone hotline during business hours of Tunstall GmbH

| Order number                                    | Product name                                  | Notes                      |
|---|---|----------------------------|
| 77 0710 00                                      | PrimusGlobal+ „Call recording“                |                            |
| <b>Necessary accessories, order separately:</b> |   |                            |
| 77 0790 00                                      | PrimusGlobal+ “System set-up & configuration” | see appropriate data sheet |

# PrimusGlobal+ „Connect“ module

**77 0720 00**



## General description

The PrimusGlobal+ software family effectively complements the Flamenco nurse call system. The “Connect” module is a supplement to PrimusGlobal+ “ManagementCenter”. The “Connect” module provides interfaces to other systems like hospital information system (HIS).

## Applications / drivers

Depending on the respective application appropriate drivers are used.

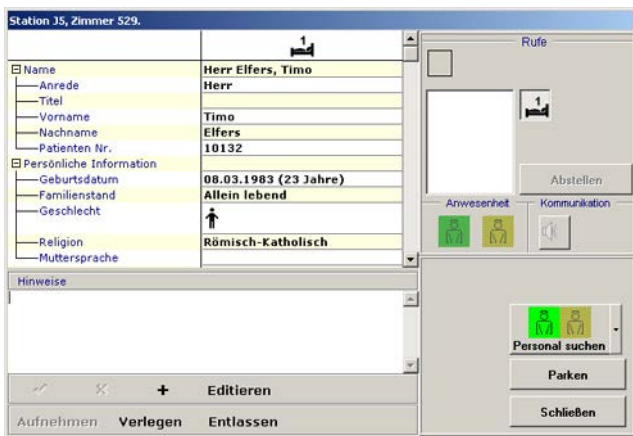
### HL7

Care data and/or personal data to be used at call handling consoles within the Flamenco nurse call system can be taken from hospital information system (HIS).

| Order number                                     | Product name                    | Notes                      |
|--|---------------------------------|----------------------------|
| 77 0720 00                                       | PrimusGlobal+ „Connect“ module  | as described above         |
| <b>System drivers, to be ordered separately:</b> |                                 |                            |
| 77 0720 01                                       | PrimusGlobal+ system driver HL7 | see appropriate data sheet |

# PrimusGlobal+ system driver HL7

77 0720 01



## General description

The PrimusGlobal+ software family effectively complements the Flamenco nurse call system. Special system drivers supplement the “Connect” module with additional interfaces and performance features.

The system driver HL7 links the hospital information system (HIS) to the PrimusGlobal+ software family.

Defined data fields from the HL7 data record are accepted and then are ready for further display at the ManagementCenter.

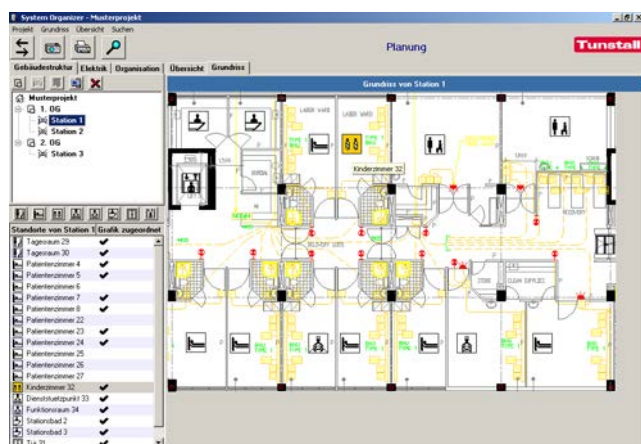
The information to be transferred is selected in agreement with the customer.

Different transfer protocols and transfer methods can be supported. Depending on the amount of work additional costs for adaptation developments may incur. The costing is made after the specification sheet is approved.

| Order number | Product name                    | Notes |
|--------------|---------------------------------|-------|
| 77 0720 01   | PrimusGlobal+ system driver HL7 |       |

# SystemOrganizer

77 0750 00



## General description

The SystemOrganizer software is a planning and configuration tool for the Flamenco system. It provides the user interface to the control unit and enables the complete parameter setting for the nurse call system.

The handling and the subdivision follows Flamenco's basic principle. The physical parameters are strictly separated from the organisational assignments.

The access is password protected by 5 different user levels. Herewith is ensured, that each user group (planning office, care management...) can only make the settings, which are important for him/her.

Right from the planning stage the SystemOrganizer is used to enter the project structures of buildings, wards and rooms. All parameters can be modified every time to adapt to the respective needs.

When using the data from the beginning of the planning over the whole life cycle of the system it will never be necessary to enter data twice. All data can be copied, saved and read out from a nurse call system.

## System planning

- Construction of the basic structure of buildings, wards, rooms
- Plan view presentation
- Screen shot directly from the screen
- Import of existing graphics

- Choosing pre-set room types
- Free allocation of room numbers and designations
- Easy handling by drag-and-drop
- Guided planning process
- Printable survey of buildings, wards, rooms

## Operation

- Interactive and user guided handling
- 5 user levels, password protection
- 2 display levels (physical, organisational structure)
- Access to all system and project data, tree structure
- Administration of several projects and archiving the data
- Readout of the project configuration in the running project, display of the configuration
- Plausibility check for data entry

## Configuration

- Country-specific settings
- Setting date and time
- Hierarchic structure of buildings, wards and rooms
- Assignment of rooms and peripherals
- Designations and room numbers for rooms, wards, buildings, etc.
- Setting call types and system messages
- Signalling options e.g. tone and flash-signal sequences
- Parameters for call handling e.g. call types, call categories, call cancelling, privacy
- Defining announcements for rooms, wards and areas
- Organisational assignment of rooms (locations) to wards, shifts, etc.
- Defining ward couplings
- Parameter setting for escalation procedures for call handling
- Administration of interfaces to external systems

# SystemOrganizer

77 0750 00

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## Configuration (continuation)

- Administration of cordless telephony devices (DECT/radio paging system/WLAN)
- Setting all system parameters including the administration of integrated networks and IP addresses

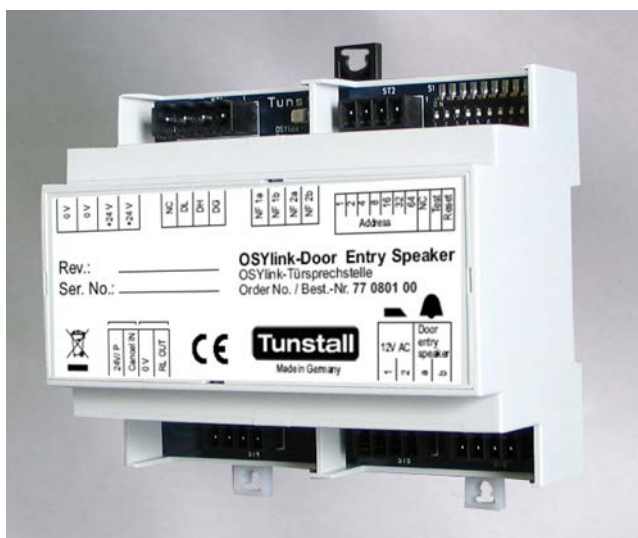
## Requirements

- Operating system: Microsoft Windows 10 (32 Bit, 64 Bit), Windows 7 (32 Bit, 64 Bit)
- 10/100 MBit LAN access
- Software training "SystemOrganizer"

| Order number                                    | Product name                        | Notes  |
|---|-------------------------------------|--|
| 77 0750 00                                      | SystemOrganizer                     |  |
| <b>Necessary accessories, order separately:</b> |                                     |  |
|   | Software training "SystemOrganizer" | Successful completing the training is a mandatory condition for using the SystemOrganizer. |

# OSYlink-Door entry speaker

77 0801 00



## General description

Interface for connecting a door entry speaker, order no. 77 0350 00, to the group bus (OSYnet).

## Specification

- 2-wire-connection to the door entry speaker (data and speech)
- Connection for door opener transformer 12 V AC
- Mounting on wall or top-rail (35 mm), several units can be mounted side-by-side
- Outputs short-circuit and overload protected
- Input for local call cancelling in combination with a separate switch

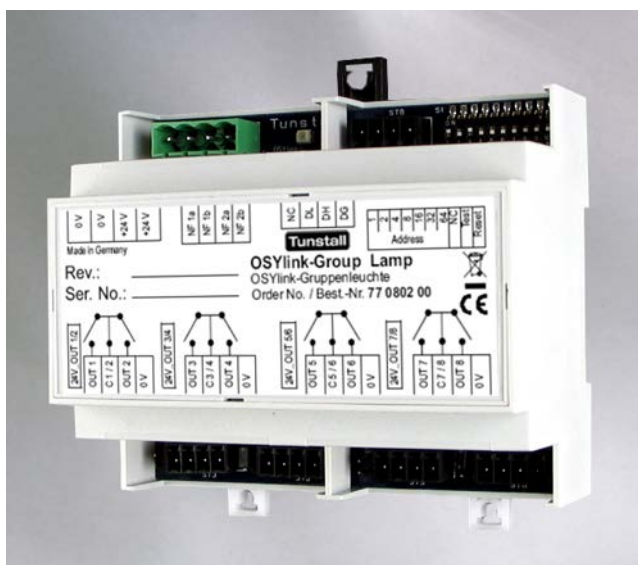
## Technical data

|                      |                        |
|----------------------|------------------------|
| Dimensions (HxWxD):  | 90 x 106 x 58 mm       |
| Colour:              | RAL 7035 light grey    |
| Housing material:    | Polycarbonate UL94 V-0 |
| IP code:             | IP 20                  |
| Power supply:        | 24 V DC                |
| Max. supply current: | 380 mA                 |

| Order number | Product name               | Notes |
|--------------|----------------------------|-------|
| 77 0801 00   | OSYlink-Door entry speaker |       |

# OSYlink-Group lamp

77 0802 00



## General description

Interface for connecting group lamps to the group bus (OSYnet). Usable as collective or direction display. Room allocation and group forming possible.

## Specification

- 4 x 2 potential-free outputs for connecting 4 group lamps, with two light sections each
- Power supply selectable (jumper) internal from the nurse call system or external
- Display compliant with DIN VDE 0834, centrally configurable
- Central, flexible configuration of flash-signal sequences and allocation of user addresses
- Mounting on wall or to-hat rail (35 mm), several units can be mounted side-by-side
- Outputs short-circuit and overload protected

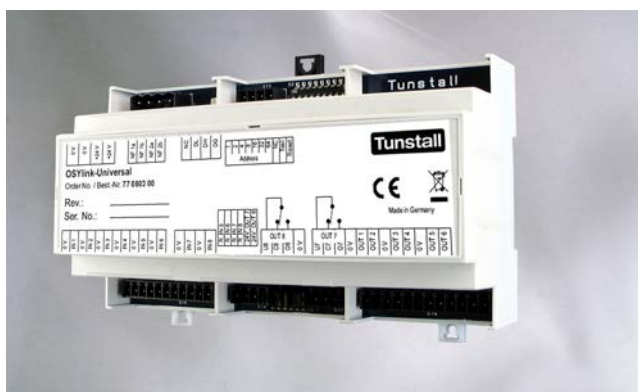
## Technical data

|                      |                        |
|----------------------|------------------------|
| Dimensions (HxWxD):  | 90 x 106 x 58 mm       |
| Colour:              | RAL 7035 light grey    |
| Housing material:    | Polycarbonate UL94 V-0 |
| IP code:             | IP 20                  |
| Power supply:        | 24 V DC                |
| Max. supply current: | 230 mA                 |

| Order number | Product name       | Notes |
|--------------|--------------------|-------|
| 77 0802 00   | OSYlink-Group lamp |       |

# OSYlink-Universal

77 0803 00



## General description

Interface for connecting external systems and/or technical installations to the group bus (OSYnet).

## Specification

- 4 monitored inputs:
  - 2 x Call
  - 1 x Emergency call
  - 1 x Cardiac alarm (code blue)
- 1 input: collective announcement (all wards)
- 1 input: collective announcement (all presences)
- 1 input „Initiate call“ and 1 associated input „Cancel call“
- 4 solid state outputs, configurable:
  - Collective output Calls
  - Collective output Emergency calls
  - Collective output Cardiac alarms (code blue)
- 2 solid state outputs, can be configured
- 1 output with location light feature, configurable (functionally associated to one input)
- 2 potential free outputs, configurable (change-over contact, voltage source selectable by jumper)
- Central, flexible configuration of the outputs
- Mounting on wall or top-hat rail (35 mm), several units can be mounted side-by-side
- Outputs short-circuit and overload protected

## Technical data

|                      |                        |
|----------------------|------------------------|
| Dimensions (HxWxD):  | 90 x 160 x 58 mm       |
| Colour:              | RAL 7035 light grey    |
| Housing material:    | Polycarbonate UL94 V-0 |
| IP code:             | IP 20                  |
| Power supply:        | 24 V DC                |
| Max. supply current: | 900 mA                 |

| Order number | Product name      | Notes |
|--------------|-------------------|-------|
| 77 0803 00   | OSYlink-Universal |       |



# OSYlink-Announcement

77 0804 00



## General description

Interface for connecting a maximum of 5 loudspeakers with announcement interface, order no. 05 0024 01, or a maximum of 4 1-channel-audio-amplifiers 100 V / 25 W, order no. 00 0647 13, to the group bus (OSYnet). Connection of single devices or groups.

## Specification

- 1 audio output for driving the active loudspeakers or the audio amplifiers
- 1 potential-free digital output for control of signaling the activity of the active loudspeakers
- Mounting on wall or top-hat rail (35 mm), several units can be mounted side-by-side
- Output short-circuit and overload protected

## Technical data

|                              |                        |
|------------------------------|------------------------|
| Dimensions (HxWxD):          | 90 x 106 x 58 mm       |
| Colour:                      | RAL 7035 light grey    |
| Housing material:            | Polycarbonate UL94 V-0 |
| IP code:                     | IP 20                  |
| Power supply:                | 24 V DC                |
| Standby current consumption: | 32 mA                  |
| Max. current consumption:    | 60 mA                  |

| Order number | Product name         | Notes |
|--------------|----------------------|-------|
| 77 0804 00   | OSYlink-Announcement |       |

# RAN interface

77 0840 00



## General description

The RAN interface is intended for the connection of a third-party device to the room bus (RAN). A top-hat rail clip for mounting the RAN interface on a top-hat rail is included with the delivery.

## Available applications:

### External call device initiates the call type „call“:

- Call button as normally closed or normally open contact
- Minimum switching current for the button: 0.1 mA, 5 V DC
- Bed number can be set
- Mode of call cancellation can be configured: Call cancelling within the nurse call system or automatically, when the call device is reset.
- Location light can be connected ( $I_{max} = 0.5 \text{ mA}$ ). When a call is initiated, it is on with a bright light as reassurance light.

### External call device initiates a „Cardiac alarm“:

- Alarm button as normally closed or normally open contact
- Minimum switching current for the button: 0.1 mA, 5 V DC
- Bed number can be set

- Mode of alarm cancellation can be configured: Alarm cancelling within the nurse call system or automatically, when the alarm device is reset.
- Location light can be connected ( $I_{max} = 0,5 \text{ mA}$ ). When a cardiac alarm is initiated, it is on with a bright light as reassurance light.

### External call device initiates call type „WC call“:

- Call button as normally closed or normally open contact
- Minimum switching current for the button: 0.1 mA, 5 V DC
- A channel number can be assigned to form functional units
- Location light can be connected ( $I_{max} = 0.5 \text{ mA}$ ). When a WC call is initiated, it is on with a bright light as reassurance light.

### External presence switch for staff presence 1:

- Presence button as normally closed or normally open contact
- Minimum switching current for the button: 0.1 mA, 5 V DC
- A channel number can be assigned to form functional units

### Telephone call initiates call type „telephone call“:

- In connection with telephone interface relay, order no. 11 5350 00)

### TV set is controlled using ePat<sup>®lite</sup> or patient handset:

- Using ePat<sup>®lite</sup> or patient handset and connection socket combi (order no. 70 0424 00) or combi bed-head unit (order no. 70 0434 00) patient TV can be controlled.

## Technical data

|                    |   |
|--------------------|---|
| Dimensions (HxWxD) | 32 x 34 x 16 mm (without top-hat rail clip) |
| Weight:            | 13 g (w/o top-hat rail clip)                |
| Power supply:      | 24 V DC                                     |

| Order number | Product name  | Notes |
|--------------|---------------|-------|
| 77 0840 00   | RAN interface |       |

# OSYlink AS-CCS

**77 0870 00**



## General description

Universal interface for the compatible connection of CCS systems to the Flamenco system family.

Intended for installation in ward distribution cabinets or installation rooms.

The interface transforms the data and speech signals of previous CCS systems into compatible signals for the Flamenco system. This way, it is possible to run individual wards using CCS technology in a Flamenco system environment.

The operating mode is adjustable by a coding switch.

## Important note

Existing projects are often complex in structure (project history, customized solutions, existing cabling, etc.) That's why the functionality has to be checked in case of using the OSYlink AS-CCS for each single project.

## Important note

For connecting a half-duplex speech system additionally a speech amplifier with the power supply unit is required. It will be controlled by the OSYlink AS-CCS via defined contacts.

## Specification

- Data and speech connection to the OSYnet
- Data and speech connection to the CCS bus
- Switching inputs and outputs for control of an external speech amplifier
- Conversion of all needed system functions
- System configuration via OSYnet (SystemOrganizer)
- Operation and function indicators
- Plug-in connections
- Mounting on top-hat rail (35 mm)

## Technical data

|                      |                        |
|----------------------|------------------------|
| Dimensions (HxWxD):  | 90 x 160 x 58 mm       |
| Colour:              | RAL 7035 light grey    |
| Housing material:    | Polycarbonate UL94 V-0 |
| IP code:             | IP 20                  |
| Power supply:        | 24 V DC                |
| Max. supply current: | 90 mA                  |

| Order number | Product name   | Notes |
|--------------|----------------|-------|
| 77 0870 00   | OSYlink AS-CCS |       |

# OSYlink AS-L200

77 0872 00



## General description

Universal interface for the compatible connection of L200 systems to the Flamenco system family.

Intended for installation in ward distribution cabinets or installation rooms.

The interface transforms the data signals of previous L200 systems into compatible signals for the Flamenco system. This way, it is possible to run individual wards using L200 technology in a Flamenco system environment.

The operating mode is adjustable by a coding switch.

## Important note

Existing projects are often complex in structure (project history, customized solutions, existing cabling, etc.) That's why the functionality has to be checked in case of using the OSYlink AS-L200 for each single project.

## Specification

- Data connection to the OSYnet
- Data connection to the CCS bus
- Conversion of all needed system functions
- System configuration via OSYnet (SystemOrganizer)
- Operation and function indicators
- Plug-in connections
- 24V power supply from ward power supply unit
- Mounting on top-hat rail (35 mm)

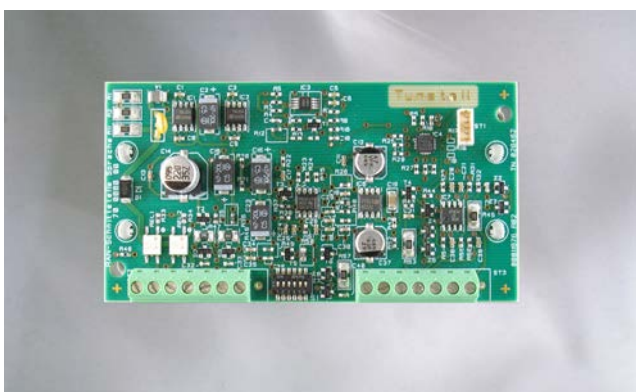
## Technical data

|                      |                        |
|----------------------|------------------------|
| Dimensions (HxWxD):  | 90 x 160 x 58 mm       |
| Colour:              | RAL 7035 light grey    |
| Housing material:    | Polycarbonate UL94 V-0 |
| IP code:             | IP 20                  |
| Power supply:        | 24 V DC                |
| Max. supply current: | 90 mA                  |

| Order number | Product name    | Notes |
|--------------|-----------------|-------|
| 77 0872 00   | OSYlink AS-L200 |       |

# RAN interface with speech

77 0880 00



## General description

Interface for the connection of analogue speech systems per bed to the room bus (RAN). Telephones or other devices with speech can be used as patient units, provided that they comply with the specification for the connection. The patient unit to be used has to be approved by Tunstall GmbH.

The principle of the connection is based on the integration of the microphone, loudspeaker, and call button into the patient unit and an appropriate interface.

Additionally to the standard application it is possible to use the interface in parallel to an existing Tunstall patient handset. In this case different operation

modes can be realized.

## Specification

- Interface to the room bus (RAN)
- Assignment to the bed possible incl. bed identification 1 – 6, DIP switch
- Input for the monitored connection of a call button
- Disconnection of the patient unit is registered. A call will be raised automatically.
- Output for the connection of a reassurance light with location light function
- Input/output for the speech communication, microphone and loudspeaker separately
- Output for the request of a speech connection by the nurse call system (serves for switching between different signal sources as telephone, TV sound, nurse call system)
- Mounting on a top-hat rail e.g. in a medical supply unit

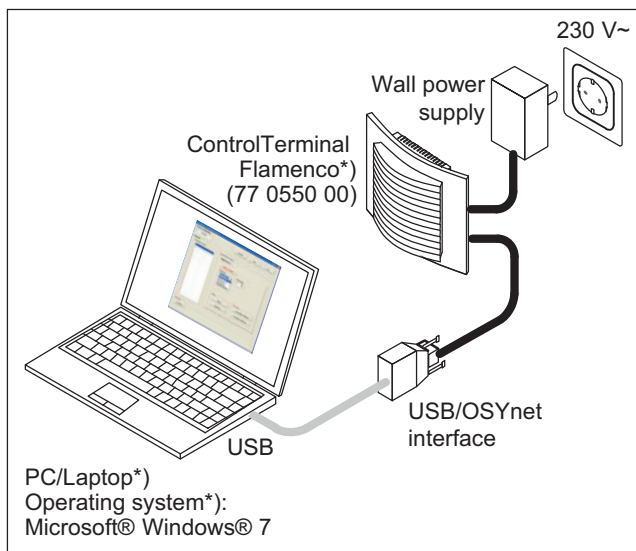
## Technical data

|                     |   |
|---------------------|---|
| Dimensions (HxWxD): | 13 x 51 x 95 mm<br>(without fixing clips) |
| Weight:             | 28 g (without fixing clips)               |
| Power supply:       | 24 V DC                                   |

| Order number | Product name              | Notes |
|--------------|---------------------------|-------|
| 77 0880 00   | RAN interface with speech |       |

# ControlTerminal ConfigSet

**77 0920 00**



\*) Non included with ConfigSet delivery

## General description

Configuration tool for setting up and configuring the ControlTerminal. This set is needed to configure the ControlTerminal according to its determination.

- Physical address
- Number of monitored room devices
- Room type

## Specification

- USB/OSYnet interface
- All required connection cables and plugs
- Wall power supply for the ControlTerminal to be configured
- Configuration software
- Online help

| Order number | Product name              | Notes |
|--------------|---------------------------|-------|
| 77 0920 00   | ControlTerminal ConfigSet |       |

# Power supply unit 10A, DIN rail

77 3410 00



## General description

Power supply unit for supplying the nurse call system with safety extra-low voltage SELV. The number of rooms, that can be connected, is project specific.

2x MOPP acc. to EN 60601-1.

EMC tested acc. to EN 60601-1-2.

Wide range input for international use. Short-circuit and overload protected.

DC ok LED and DC ok relay contact for further fault processing.

Designed for the installation onto a 35 mm DIN rail in an enclosure providing protection against electrical, mechanical and fire hazards. The power supply unit is designed for convection cooling and does not require an external fan.

## Technical data

### Input

Nominal voltage: 100 – 240 V AC  
(-15%/+10%)

Input frequency: 50 – 60 Hz ±6%

### Output

Nominal current: 10 A

Nominal voltage: 24 V DC

Adjustment range: 24 – 28 V DC

Output power: 240 W

### Conformities

Safety: EN 60950-1, SELV

CE marked acc. to: 2014/30/EU, 2014/35/EU, 2011/65/EU

Fulfilled standards: EN 61000-6-3; EN 61000-6-4; EN 61000-6-2; EN 61000-6-1; EN 60950-1; EN 50581

Testing voltage: PRI – SEC: 4 kV

Class of protection: Class I (acc. to EN 61140)

Ingress protection code: IP20

### Connections

Input, output: Quick-connect spring clamp terminals

DC ok signal: Push-in terminals

### Permissible ambient conditions

Ambient temperature: -25 – +70 °C

Relative humidity: 5 to 95% (non condensing)

Pollution degree: 2 (No condensation or frost is allowed.)

### General

MTBF SN 29500: 661,000 h at 10 A, 40 °C

Weight: 620 g

Dimensions (HxWxD): 124 x 39 x 117 mm

# Power supply unit 10A, DIN rail

77 3410 00

- Page 2 -



| Order number  | Product name                               | Notes                      |
|---|--|----------------------------|
| 77 3410 00  | Power supply unit 10A, DIN rail            |                            |
| <b>Wall mounting cabinets, suitable for the installation of devices of the modular power supply, order if required:</b> |  |                            |
| 77 3510 06  | 10" Wall mounting cabinet, 6U, GD          | see appendix „accessories“ |
| 77 3519 07  | 19" Wall mounting cabinet, 7U, GD          | see appendix „accessories“ |
| 77 3519 12  | 19" Wall mounting cabinet, 12U, GD         | see appendix „accessories“ |
| <b>Equipment support for the installation of devices into wall mounting cabinets, order if required:</b>                |  |                            |
| 76 0900 01  | 19" Mounting set                           | see appendix „accessories“ |
| 76 0900 02  | Mounting set for 10" wall mounting cabinet | see appendix „accessories“ |



# UPS Control unit 10A

77 3411 00



## General description

Addition to the power supply unit 10A, DIN rail (order no. 77 3410 00) for uninterrupted operation supplied by the battery module (order no. 77 3412 00) with 60 minutes backup power supply at 80% load.

Superior battery management for charging and monitoring of the external battery as well as a stable output voltage over the entire period of battery operation.

Comprehensive diagnostic and monitoring functions; „replace battery“ signal included.

Short-circuit and overload protected.

Designed for the installation onto a 35 mm DIN rail in an enclosure providing protection against electrical, mechanical and fire hazards. The device is designed for convection cooling and does not require an external fan.

## Technical data

### Input

Nominal voltage: 24 V DC (-20%/+25%)

### Output in mains operation

Output current: nom. 15 A  
 Output power: nom. 360 W  
 Output voltage: Input voltage minus 230 mV (at 10 A load)

### Output in battery operation

Output current: 10 A  
 Output voltage: 22.25 V DC (at 10 A load)  
 Battery voltage: nom. 12 V DC  
 Charging current: typ. 600 mA, temperature dependent

### Bridging time

- at nominal current: typ. 55 minutes  
 - at 80% load: typ. 60 minutes

Battery charging time: typ. 17 hours

### Conformities

Safety: EN 60950-1, SELV  
 CE marked acc. to: 2014/30/EU, 2014/35/EU, 2011/65/EU

Fulfilled standards: EN 61000-6-3; EN 61000-6-4; EN 61000-6-2; EN 61000-6-1; EN 60079-0; EN 60079-7; EN 60079-15; EN 50581

Class of protection: Class III (acc. to EN 61140)  
 Ingress protection code: IP20

### Connections

Input, output, battery: Quick-connect spring clamp terminals

Signal connection: Screw terminals

### Permissible ambient conditions

Ambient temperature: -25 – +70 °C  
 Relative humidity: 5 to 95% (non condensing)  
 Pollution degree: 2 (No condensation or frost is allowed)

### General

Power reserves: 50%  
 MTBF SN 29500: 886,000 h at 10 A, 40 °C  
 Weight: 530 g  
 Dimensions (HxWxD): 124 x 49 x 117mm

| Order number | Product name         | Notes |
|--------------|----------------------|-------|
| 77 3411 00   | UPS Control unit 10A |       |

# Battery module

77 3412 00



## General description

Module including battery, mounting bracket, wiring and fuse for use with power supply unit 10A, DIN rail (order no. 77 3410 00) and UPS control unit (order no. 77 3411 00) for uninterrupted operation with 60 minutes backup power supply at 80% load.

Long life battery: 10 to 12 years acc. to EUROBAT. In a typical application it is recommended to replace the batteries at least every 5 years.

Low space requirement. Easy access to the terminals and the fuse. Heavy duty fuse holder and spare fuse included.

Designed for the installation inside an enclosure providing protection against electrical, mechanical and fire hazards. Ensure sufficient ventilation by following the requirements of the EN 62485-2.

## Technical data

### Battery characteristics

|                      |  |
|----------------------|--|
| Battery type:        | VRLA, lead acid                                      |
| Battery voltage:     | 12 V DC  |
| Battery capacity:    | approx. 26 Ah  |
| Battery current:     | max. 30 A for discharging<br>max. 5.5 A for charging |
| Self-discharge rate: | 3% per month at 20 °C                                |
| Battery fuse:        | 30 A (ATOF)  |

### Conformities

|                      |  |
|----------------------|--|
| CE marked acc. to:   | 2014/30/EU; 2014/34/EU;<br>2011/65/EU (excluding battery)  |
| Fulfilled standards: | EN 61000-6-3; EN 61000-6-4;<br>EN 61000-6-2; EN 61000-6-1;<br>EN 60079-0; EN 60079-7;<br>EN 60079-15; EN 50581 |

|                          |                              |
|--------------------------|------------------------------|
| Class of protection:     | Class III (acc. to EN 61140) |
| Ingress protection code: | IP00                         |

### Permissible ambient conditions

|                              |   |
|------------------------------|---|
| Ambient temperature:         |   |
| - for charging:              | -10 to +50 °C   |
| - for discharging:           | -15 to +60 °C   |
| - for transport and storage: | -20 to +50 °C (performance and lifetime might change for storage at temperatures higher than 25 °C) |
| Relative humidity:           | 5 to 95% (non condensing)   |
| Pollution degree:            | 2 (No condensation or frost is allowed.)  |

### General

|                     |                         |
|---------------------|-------------------------|
| Dimensions (HxWxD): | 179 x 214 x 158 mm      |
| Weight:             | 10.1 kg (incl. battery) |
| Connection:         | Screw terminals         |

| Order number | Product name   | Notes |
|--------------|----------------|-------|
| 77 3412 00   | Battery module |       |

# OSYnet-Y-RepeaterOpto

77 4000 00



## General description

Data repeater for electrical isolation of the group bus (OSYnet).

Intended for branching and/or isolation of the group bus OSYnet into 2 autonomous sections, Y-branching.

One repeater can be used per physical group.

## Specification

- Direct connection to the group bus (OSYnet) and its branch sections (Sub-D, 9-pole)
- Electrical isolation of the branch sections
- Mounting on top-hat rail (35 mm), several units can be mounted side-by-side

## Technical data

|                     |                 |
|---------------------|-----------------|
| Dimensions (HxWxD): | 85 x 25 x 83 mm |
| Housing material:   | Polyamide       |
| IP code:            | IP 20           |
| Power supply:       | 24 V DC         |

| Order number                                    | Product name           | Notes                      |
|---|------------------------|----------------------------|
| 77 4000 00                                      | OSYnet-Y-RepeaterOpto  |                            |
| <b>Necessary accessories, order separately:</b> |                        |                            |
| 77 0950 00                                      | OSYnet-Connecting plug | see appendix „accessories“ |

# OSYnet-Gateway

77 4001 00



## General description

Active gateway for electrical isolation of the group bus (OSYnet).

Intended for extension of the maximum group bus (OSYnet) cable length to additional 700 m.

One gateway can be used per physical group.

## Specification

- Direct connection to the group bus (OSYnet) and its branch sections, screw clamps
- Interface for configuration
- Electrical isolation of the branch sections
- Mounting on top-hat rail (35 mm), several units can be mounted side-by-side

## Technical data

Dimensions (HxWxD): 105 x 37 x 35 mm

Housing material: Polyamide

IP code: IP 20

Power supply: 24 V DC

| Order number | Product name   | Notes |
|--------------|----------------|-------|
| 77 4001 00   | OSYnet-Gateway |       |

# 8-port star repeater

77 4002 10



## General description

Designed for the star structured distribution of OSY-net data networks, especially for existing projects with existing cabling.

The 8-port star repeater is connected between an OSY-ControlCenter or an IP-SystemManager and the appropriate group lines or single bus users.

## Specification

- Star structured connection of max. 7 OSYnets to an 8-port star repeater
- Max. 10 bus users per OSYnet
- Max. 100 m cable length per output
- Outputs are not electrically isolated
- Mounting on top-hat rail (35 mm)
- Max three 8-port star repeaters can be mounted side-by-side. They are automatically interconnected.

## Note

Further constellations and cable structures can be supported. But the individual case has to be verified by Tunstall beforehand.

## Technical data

|                              |                  |
|------------------------------|------------------|
| Dimensions (HxWxD):          | 76 x 144 x 57 mm |
| Standby current consumption: | 70 mA            |
| Ambient temperature:         |                  |
| - Operation:                 | -20 – +60 °C     |
| - Storage:                   | -40 – +80 °C     |
| Power supply:                | 24 V DC          |

| Order number | Product name         | Notes |
|--------------|----------------------|-------|
| 77 4002 10   | 8-port star repeater |       |

**iVi™**
*for use with radio receiver-T and -T UP*
**P68005/47**


## General description

iVi™ is an intelligent personal radio trigger. The iVi™ allows the wearer to press a call button to generate a call manually. An integrated, intelligent fall detection technology automatically generates a call if it detects a fall.

Before the iVi™ triggers an emergency call in the event of a fall, it emits a tone sequence for 10 seconds and the control lamp lights up green (pre-alarm). This allows the user to prevent a fall emergency call by pressing the cancel button.

In conjunction with home units, the iVi™ can report to the emergency call recipient if the iVi™ has not been worn for several days. In addition, the emergency call receiver of home units can be informed if the user has cancelled fall emergency calls with the cancel button on iVi™.

## Specification

- Use with the following Tunstall products:
  - All current home units
  - All radio receivers-T and -T UP
  - CareAssist
- Call button for manually raising a call
- Automatically generating a call if a fall is detected
- Pre-alarm allows the user to cancel a fall emergency call with the cancel button.
- Abstelltaste per Programmierung deaktivierbar
- Dust tight and protected against ingress of water when iVi™ is immersed in water under defined conditions of pressure and time (IP67)
- Transport mode for storage and transport saves battery capacity
- Adjustable sensitivity
- Emergency call if iVi™ has not been worn for several days (adjustable: 3, 5, 7 days) (with home units)
- Lithium battery (CR2450, 3 V) in easy-open compartment to enable simple replacement. Battery life: approx. 9 to 12 months
- Automatic battery monitoring and control LED
- Signalling when the battery of the iVi™ is low:
  - The home unit automatically triggers a background call to the monitoring centre.
  - The LED on the radio receiver-T or -T UP flashes red.
  - The CareAssist alerts the user with a transmitter battery low message
- Auto presence monitoring
- Radio range depending on the building structure:
  - to home unit: up to 50 m
  - to radio receiver-T or -T UP: up to 30 m
  - to CareAssist: up to 50 m
- Accessories: brooch clip, neckcord, belt clip

**iVi™**

*for use with radio receiver-T and -T UP*

**P68005/47**



**Technical data**

- Dimensions (HxWxD): 58 x 38 x 14 mm
- Weight iVi™: 25 g
- Weight iVi™ + brooch clip + neckcord: 30 g
- Radio frequency: 869.2125 MHz
- Ambient temperature
  - Operation: 0 °C – 45 °C
  - Storage: -10 °C – 50 °C
- Relative humidity (non condensing):
  - Operation: 0% to 80%
  - Storage: 0% to 93%

| Order number                           | Product name                       | Note                           |
|--|------------------------------------|--------------------------------|
| P68005/47                              | iVi™                               |                                |
| <b>Use with radio receiver:</b>        |                                    |                                |
| Z 00 8202 33                           | Radio receiver-T                   | for connection socket 700xxxxx |
| Z 00 8202 35                           | Radio receiver-T UP                |                                |
| <b>Spare parts, order if required:</b> |                                    |                                |
| D6602026                               | Belt clip iVi™                     | Packing unit 10 pieces         |
| D6602027                               | Brooch clip iVi™                   | Packing unit 10 pieces         |
| D6602044                               | Neckcord iVi™                      | Packing unit 10 pieces         |
| D6602034                               | Cover for battery compartment iVi™ | Packing unit 1 piece           |

# MyAmie

for use with radio receiver-T and -T UP

**P68007/02**



## General description

A small and waterproof personal radio trigger for wireless initiation of calls. It is light weight and provides different wearing options. A wrist strap and a neckcord are included with scope of delivery.

## Specification

- Use with the following Tunstall products:
  - All current home units
  - All radio receivers-T and -T UP
  - CareAssist
- Call button
- Control LED lights up red, if call button is pressed
- Neckcord
- Wrist strap, 20 mm wide
- Auto presence monitoring

- Radio range depending on the building structure:
  - to home unit: up to 50 m
  - to radio receiver-T or -T UP: up to 30 m
  - to CareAssist: up to 50 m
- Control LED and automatic battery monitoring
- Signalling when the battery of MyAmie is low:
  - The home unit automatically triggers a background call to the monitoring centre.
  - The LED on the radio receiver-T or -T UP flashes red.
  - The CareAssist alerts the user with a transmitter battery low message
- Dust tight and protected against ingress of water when MyAmie is immersed in water under defined conditions of pressure and time (IP67)
- Long-lasting material durability due to the high-performance plastic Hytrel®.
- Lithium battery
- Prognosticated battery life: 7 years

## Technical data

|                       |                 |
|-----------------------|-----------------|
| Dimensions (HxWxD):   | 14 x 27 x 36 mm |
| Weight:               | 7 g             |
| Housing material:     | ABS             |
| Call button material: | Hytrel®         |
| Radio frequency:      | 869.2125 MHz    |
| Ambient temperature:  |                 |
| - Operation:          | 0 °C – 45 °C    |
| - Storage:            | -10 °C – 50 °C  |

| Order no.                              | Model no. (= Number on the MyAmie label) | Product name               | Note                                   |
|--|--|----------------------------|--|
| P68007/02                              | 68005/02                                 | MyAmie                     | Housing: cream white, call button: red |
| <b>Use with radio receiver:</b>        |  |                            |  |
| Z 00 8202 33                           |  | Radio receiver-T           | for connection socket 700xxxxx         |
| Z 00 8202 35                           |  | Radio receiver-T UP        |  |
| <b>Spare parts, order if required:</b> |  |                            |  |
| D6702137                               |  | Neckcord MyAmie, white     | Packing unit 10 pieces                 |
| D6702145                               |  | Wrist strap (20 mm) MyAmie | Packing unit 10 pieces                 |



# Wireless sensor mat 869 MHz

for use with radio receiver-T and -T UP

**Z 00 8002 01**



## General description

Large mat for triggering of calls by stepping on or pressing the mat.

Suitable for use in hospitals, care homes or similar establishments.

The mat is positioned e.g. by the bed. A call is raised when the patient gets out of bed or falls out of bed and onto the mat.

The call is transmitted to the assigned radio receiver.

## Specification

- Use with the following Tunstall products:
  - All current home units
  - All radio receivers-T and -T UP
  - CareAssist
- Large sensor area
- Splash-proof
- Soft PVC, easy to clean
- Radio range depending on the building structure:
  - to home unit: up to 50 m
  - to radio receiver-T or -T UP: up to 30 m
  - to CareAssist: up to 50 m
- Battery operation - no wiring, CR2032, exchangeable
- Signalling when the battery of the sensor mat is low:
  - The home unit automatically triggers a background call to the monitoring centre.
  - The LED on the radio receiver-T or -T UP flashes red.
  - The CareAssist alerts the user with a transmitter battery low message

## Technical data

|                          |                |
|--------------------------|----------------|
| Colour:                  | ivory-coloured |
| Material:                | Soft PVC       |
| Dimensions (WxD):        | 1200 x 500 mm  |
| Stepping area thickness: | 4 mm           |
| Radio frequency:         | 869.2125 MHz   |

| Order number                    | Product name                | Note                          |
|---------------------------------|-----------------------------|-------------------------------|
| Z 00 8002 01                    | Wireless sensor mat 869 MHz |                               |
| <b>Use with radio receiver:</b> |                             |                               |
| Z 00 8202 33                    | Radio receiver-T            | for connection socket 700xxxx |
| Z 00 8202 35                    | Radio receiver-T UP         |                               |

# Sensor mat

for connection socket 700xxxxx

**Z 00 8002 02**



## General description

Large mat for triggering of calls by stepping on or pressing the mat.

Suitable for use in hospitals, care homes or similar establishments.

The mat is positioned e.g. by the bed. A call is raised when the patient gets out of bed or falls out of bed and onto the mat.

Plug-in connection to a connection socket, order no. 70 00xx xx, socket for pear push switch.

## Specification

- Fault monitoring
- Large sensor area
- Disconnection monitoring
- Splash-proof
- Soft PVC, easy to clean
- Approx. 3 m flexible cable with plug for connection to a connection socket of the nurse call system, socket for pear push switch

## Technical data

Colour: ivory-coloured  
 Material: Soft-PVC  
 Power supply: 24 V DC  
 Dimensions (WxD): 1200 x 500 mm  
 Stepping area thickness: 4 mm

| Order number | Product name | Notes                          |
|--------------|--------------|--------------------------------|
| Z 00 8002 02 | Sensor mat   | for connection socket 700xxxxx |

# Wireless step-on sensor mat

for use with radio receiver-T and -T UP

Z 00 8003 0x



Z 00 8003 01



Z 00 8003 02

## General description

Robust, professional contact step-on sensor mat for the monitoring of person movements, also for dementia or vital detection. Sturdy, step-, slip- and stumble-proof design with bevelled edges and easy to clean surface in nap structure.

The mat is positioned e.g. by the bed. A call is raised when the patient gets out of bed or falls out of bed

and onto the mat. The call is forwarded to the connected nurse call system or connected call device.

## Specification

- Use with the following Tunstall products:
  - All current home units
  - All radio receivers-T and -T UP
  - CareAssist
- Radio range depending on the building structure:
  - to home unit: up to 50 m
  - to radio receiver-T or -T UP: up to 30 m
  - to CareAssist: up to 50 m
- Large sensor area
- Splash-proof
- Can be damp cleaned and disinfected
- Battery operation - no wiring, CR2032, exchangeable
- Signalling when the battery of the sensor mat is low:
  - The home unit automatically triggers a background call to the monitoring centre.
  - The LED on the radio receiver-T or -T UP flashes red.
  - The CareAssist alerts the user with a transmitter battery low message.

## Technical data

|                                 |                    |
|---------------------------------|--------------------|
| Colour:                         | Grey               |
| Degree of protection:           | IP54               |
| Material:                       | Polyurethane (PU)  |
| Power supply:                   | 3.0 V DC           |
| Dimensions (H x W x D):         | 9* x 1100 x 700 mm |
| * Height at transmitter module: | 15 mm              |
| Weight:                         | approx. 7500 g     |
| Radio frequency:                | 869.2125 MHz       |

| Order number                    | Product name                   | Notes                          |
|---------------------------------|--------------------------------|--------------------------------|
| Z 00 8003 01                    | Wireless step-on sensor mat CM | rectangular shape              |
| Z 00 8003 02                    | Wireless step-on sensor mat NM | semicircular shape             |
| <b>Use with radio receiver:</b> |                                |                                |
| Z 00 8202 33                    | Radio receiver-T               | for connection socket 700xxxxx |
| Z 00 8202 35                    | Radio receiver-T UP            |                                |

# Large-surface pneumatic switch

for connection socket 700xxxxx

**Z 008201 13**



## General description

Large-surface pneumatic switch for call activation. Only a very slight actuation force is required in order to activate the switch. It is therefore very well suited when there are activation problems due to illness.

Plug-in connection to a connection socket, order no. 70 0xxx xx, socket for pear push switch.

## Specification

- Red call button, round
- Optical reassurance indicator that lights up all around as well as vibration when the button is pressed (vibration can be disabled)
- Disconnection monitoring
- Ingress protection code: IP44 (Do not use in wet cells)
- Approx. 2 m flexible cable with plug for connection to a connection socket of the nurse call system, socket for pear push switch

## Technical data

Colour: red  
 Dimensions (HxØ): 40 x 110 mm  
 Weight: approx. 300 g  
 Ø pressure surface 90 mm  
 Material: TPE/TPR  
 Standby current consumption: 16 mA  
 Ambient temperature: -10 °C to +55 °C

| Order number                                    | Product name                   | Notes                          |
|---|--------------------------------|--------------------------------|
| Z 008201 13                                     | Large-surface pneumatic switch | for connection socket 700xxxxx |
| <b>Optional accessories, order if required:</b> |                                |                                |
| Z 008201 16                                     | Wall bracket                   | for screw fixing               |

# Large-surface radio pneumatic switch

for use with radio receiver-T and -T UP

**Z 008201 15**



## General description

Wireless large-surface pneumatic switch. Only a very slight actuation force is required in order to activate the switch. It is therefore very well suited when there are activation problems due to illness.

## Specification

- Use with the following Tunstall products:
  - All current home units
  - All radio receivers-T and -T UP
  - CareAssist
- Red triggering surface, round,  $\varnothing$  90 mm
- Optical reassurance indicator that lights up all around as well as vibration when the button is pressed (vibration can be disabled)
- Radio range depending on the building structure:
  - to home unit: up to 50 m
  - to radio receiver-T or -T UP: up to 30 m
  - to CareAssist: up to 50 m
- Signalling when the battery of the switch is low:
  - The home unit automatically triggers a background call to the monitoring centre.
  - The LED on the radio receiver-T or -T UP flashes red.
  - The CareAssist alerts the user with a transmitter battery low message.
- Ingress protection code: IP44 (Do not use in wet cells)
- 3 V battery (CR2450), replaceable

## Technical data

|                                 |                  |
|---------------------------------|------------------|
| Colour:                         | red              |
| Dimensions (Hx $\varnothing$ ): | 40 x 110 mm      |
| Weight:                         | 200 g            |
| $\varnothing$ pressure surface  | 90 mm            |
| Radio frequency:                | 869.2125 MHz     |
| Ambient temperature:            | -10 °C to +55 °C |

| Order number                                    | Product name                         | Notes                          |
|---|--------------------------------------|--------------------------------|
| Z 008201 15                                     | Large-surface radio pneumatic switch |                                |
| <b>Use with radio receiver:</b>                 |                                      |                                |
| Z 00 8202 33                                    | Radio receiver-T                     | for connection socket 700xxxxx |
| Z 00 8202 35                                    | Radio receiver-T UP                  |                                |
| <b>Optional accessories, order if required:</b> |                                      |                                |
| Z 008201 16                                     | Wall bracket                         | for screw fixing               |

# Breathing sensor set

for connection socket 700xxxxx

**Z 00 8201 40**



## General description

Contact-less call sensor for call initiation by breath. The breathing sensor enables persons with very severe motor impairments to trigger calls by means of breath / blowing sounds. Even the slightest breathing triggers a call.

Inadvertent triggering, e.g. by ambient noise, is largely suppressed by an intelligent sound evaluation system.

Integrated operating displays show the current device status.

Plug-in connection to a connection socket, order no. 70 0xxx xx, socket for pear push switch.

## Specification

- Sensor unit for call initiation via breathing or blowing noises incl. approx. 2 m flexible connection cable and plug for connection to a socket of the nurse call system, socket for pear push switch
- Universal clamp bracket with 60 cm flexible goose-neck
- Integrated status display on the sensor head
- Control module with status displays and further setting options
- Disconnection monitoring

## Technical data

|                                    |   |
|------------------------------------|---|
| Dimensions of sensor unit (HxWxD): | 80 x 130 x 30 mm                          |
| Settings:                          | ambient sound, brightness, location light |
| Status indication:                 | operation, call, blocking                 |
| Mounting:                          | clamp bracket                             |
| Operating voltage:                 | 24 V DC, 200 mA                           |
| IP code:                           | IP30                                      |
| Weight:                            | approx. 950 g                             |

| Order number | Product name         | Notes                          |
|--------------|----------------------|--------------------------------|
| Z 00 8201 40 | Breathing sensor set | for connection socket 700xxxxx |

# Radio receiver-T

for connection socket 700xxxxx

**Z 00 8202 33**



## General description

Radio receiver on operating frequency 869.2125 MHz (social alarm frequency) for receiving the signals from assigned radio transmitters.

Plug-in connection to a connection socket, order no. 70 0xxx xx, socket for pear push switch. Activating the radio trigger generates the same call type that would be generated by a pear push switch connected to the same socket.

**Note:** The radio transmission is not monitored. According to the German standard DIN VDE 0834 the transmitters may be used only as complementary call devices in combination with a nurse call system.

## Specification

- Integrated antenna
- 64 radio transmitters programmable
- Master mode can be activated to receive any number of radio transmitters
- If the battery of the assigned radio trigger is low, the LED on the radio receiver is flashing red
- In the event of reception blockage, fault indication on the radio receiver and call initiation
- Care mode available, deactivates selected transmitters for a set time at the touch of a key
- Daily message monitoring available with MyAmie, iVi™ and universal sensor, corresponds to the auto presence feature of Telecare devices
- Vital monitoring available e.g. with wireless sensor mat, corresponds to inactivity monitoring of Telecare devices
- Disconnection monitoring
- Radio range dependent on the spatial conditions, up to 30 m
- Short connection cable with plug, approx. 16 cm

## Usable radio transmitters

- MyAmie (order no. P68007/02)
- iVi™ (order no. P68005/47)
- Universal sensor (order no. 61005/30)
- Large-surface pneumatic radio switch (Order no. Z00820215)
- Wireless sensor mat (order no. Z00800201)
- Wireless step-on sensor mat CM (order no. Z00800301)
- Wireless step-on sensor mat NM (order no. Z00800302)
- Optical 869 Smoke Alarm (order no. 68005/70)
- Heat Alarm 869 (order no. 68005/71)
- Further radio transmitters on request

# Radio receiver-T

for connection socket 700xxxxx

**Z 00 8202 33**

**- Page 2 -**



## Technical data

|                              |                 |
|------------------------------|-----------------|
| Dimensions (HxWxD):          | 66 x 46 x 18 mm |
| Weight:                      | approx. 50 g    |
| Power supply:                | 24 V DC         |
| Standby current consumption: | 12 mA           |

| Order number                                    | Product name          | Notes                          |
|---|-----------------------|--------------------------------|
| Z 00 8202 33                                    | Radio receiver-T      | for connection socket 700xxxxx |
| <b>Optional accessories, order if required:</b> |                       |                                |
| Z 00 8202 21                                    | Magnetic wall bracket | see appendix „accessories“     |



# Radio receiver-T UP

*with free wire ends*

**Z 00 8202 35**



- Master mode can be activated to receive any number of radio transmitters
- If the battery of the assigned radio trigger is low, the LED on the radio receiver is flashing red
- In the event of reception blockage, fault indication on the radio receiver and call initiation
- Care mode available, deactivates selected transmitters for a set time at the touch of a key
- Daily message monitoring available with MyAmie, iVi™ and universal sensor, corresponds to the auto presence feature of Telecare devices
- Vital monitoring available e.g. with wireless sensor mat, corresponds to inactivity monitoring of Telecare devices
- Radio range dependent on the spatial conditions, up to 30 m
- Mounting plate included in scope of supply
- Frame with 55 mm internal dimension required, not included in scope of delivery.
- Connection to a RAN interface or a CONCENTO<sup>PLUS</sup> room controller without RAN

## General description

Radio receiver on operating frequency 869.2125 MHz (social alarm frequency) for receiving the signals from assigned radio transmitters.

The radio receiver-T UP is intended for use in the nurse call systems Flamenco<sup>IP</sup>, Flamenco, CONCENTO<sup>CARE</sup>, and CONCENTO<sup>PLUS</sup>.

Triggering the radio transmitters triggers a call or radio call, depending on the nurse call system and its configuration.

**Note:** The radio transmission is not monitored. According to the German standard DIN VDE 0834 the transmitters may be used only as complementary call devices in combination with a nurse call system.

## Specification

- Flush mounting on 1-gang back box
- Potential-free connection as normally closed or normally open contact
- Integrated antenna
- 64 radio transmitters programmable

## Usable radio transmitters

- MyAmie (order no. P68007/02)
- iVi™ (order no. P68005/47)
- Universal sensor (order no. 61005/30)
- Large-surface pneumatic radio switch (Order no. Z00820215)
- Wireless sensor mat (order no. Z00800201)
- Wireless step-on sensor mat CM (order no. Z00800301)
- Wireless step-on sensor mat NM (order no. Z00800302)
- Optical 869 Smoke Alarm (order no. 68005/70)
- Heat Alarm 869 (order no. 68005/71)
- Further radio transmitters on request

# Radio receiver-T UP

*with free wire ends*

**Z 00 8202 35**



## Technical data

|                              |                 |
|------------------------------|-----------------|
| Dimensions (HxWxD):          | 55 x 55 x 10 mm |
| Weight:                      | approx. 50 g    |
| Power supply:                | 24 V DC         |
| Standby current consumption: | 12 mA           |

| Order number                                    | Product name                             | Note                       |
|---|--|----------------------------|
| Z 00 8202 35                                    | Radio receiver-T UP                      |                            |
| <b>Order frame separately:</b>                  |  |                            |
| 77 0210 53<br>+ 77 0210 56                      | Frame + intermediate frame future linear |                            |
| <b>Necessary accessories, order separately:</b> |  |                            |
| 17 0100 00                                      | Back box solid wall, 1-gang              | see appendix "Accessories" |
| 17 5100 00                                      | Back box partition wall, 1-gang          | see appendix "Accessories" |
| 77 0840 00                                      | RAN interface                            | see separate data sheet    |

# Appendix: Services

| Services  | Order no.         |
|---|-------------------|
| <p><b>Software support IP-SystemManager</b></p> <p><i>Price/month per IP-SystemManager</i></p> <p>Tunstall puts emphasis on the security of its systems as an elementary part of the service and security concept. As a result of networking the systems via partly unknown IT/IP infrastructures, cyber security is an increasingly important issue.</p> <p>Regular system and security updates are essential for system integrity. This is the only way to ensure that the nurse call system can be safely operated over many years and is always up to date.</p> <p>Any use of an IP-SystemManager requires the conclusion of a software maintenance contract.</p> <p><b>Scope of services</b></p> <ul style="list-style-type: none"> <li>• Updates at irregular intervals</li> <li>• Ensuring system integrity</li> <li>• Minor adaptations/improvements</li> <li>• Security patches for the operating system</li> <li>• Executing the services during normal business hours</li> <li>• Updates during ongoing operation</li> </ul> <p><b>Prerequisites</b></p> <ul style="list-style-type: none"> <li>• Conclusion of a software maintenance contract</li> <li>• A remote connection to the nurse call system is required for performing updates</li> <li>• The remote access must be released after a necessary software maintenance has been announced</li> </ul> <p><b>Option</b></p> <p>If remote access is not available, software maintenance can also be carried out directly on site. In this case, the usual costs for a service visit will be charged additionally.</p> <p><b>Costs</b></p> <p>The base costs for the software maintenance of the IP-SystemManager are to be paid annually. The agreements are valid according to the terms of the software maintenance contract for the IP-SystemManager.</p> | <p>76 7021 00</p> |

| Services  | Order no.         |
|---|-------------------|
| <p><b>Software support HEALTH system, base costs</b></p> <p><i>Price/month per nurse call system</i></p> <p>Tunstall puts emphasis on the security of its systems as an elementary part of the service and security concept. As a result of networking the systems via partly unknown IT/IP infrastructures, cyber security is an increasingly important issue.</p> <p>Regular system and security updates are essential for system integrity. This is the only way to ensure that the nurse call system can be safely operated over many years and is always up to date.</p> <p>Any use of system modules installation on an IP-SystemManager requires the conclusion of a software maintenance contract.</p> <p><b>Scope of services</b></p> <ul style="list-style-type: none"> <li>• Updates at irregular intervals</li> <li>• Ensuring system integrity</li> <li>• Minor adaptations/improvements</li> <li>• Security patches</li> <li>• Executing the services during normal business hours</li> <li>• Updates during ongoing operation</li> </ul> <p><b>Prerequisites</b></p> <ul style="list-style-type: none"> <li>• Conclusion of a software maintenance contract</li> <li>• A remote connection to the nurse call system is required for performing updates</li> <li>• The remote access must be released after a necessary software maintenance has been announced</li> </ul> <p><b>Option</b></p> <p>If remote access is not available, software maintenance can also be carried out directly on site. In this case, the usual costs for a service visit will be charged additionally.</p> <p><b>Costs</b></p> <p>The base costs for the software maintenance of the system module HEALTH are to be paid annually. The agreements are valid according to the terms of the software maintenance contract for the system module HEALTH.</p> | <p>76 7030 00</p> |

| Services  | Order no.         |
|---|-------------------|
| <p><b>Software support CARE system, base costs</b></p> <p><i>Price/month per nurse call system</i></p> <p>Tunstall puts emphasis on the security of its systems as an elementary part of the service and security concept. As a result of networking the systems via partly unknown IT/IP infrastructures, cyber security is an increasingly important issue.</p> <p>Regular system and security updates are essential for system integrity. This is the only way to ensure that the nurse call system can be safely operated over many years and is always up to date.</p> <p>Any use of system modules installation on an IP-SystemManager requires the conclusion of a software maintenance contract.</p> <p><b>Scope of services</b></p> <ul style="list-style-type: none"> <li>• Updates at irregular intervals</li> <li>• Ensuring system integrity</li> <li>• Minor adaptations/improvements</li> <li>• Security patches</li> <li>• Executing the services during normal business hours</li> <li>• Updates during ongoing operation</li> </ul> <p><b>Prerequisites</b></p> <ul style="list-style-type: none"> <li>• Conclusion of a software maintenance contract</li> <li>• A remote connection to the nurse call system is required for performing updates</li> <li>• The remote access must be released after a necessary software maintenance has been announced</li> </ul> <p><b>Option</b></p> <p>If remote access is not available, software maintenance can also be carried out directly on site. In this case, the usual costs for a service visit will be charged additionally.</p> <p><b>Costs</b></p> <p>The base costs for the software maintenance of the system module CARE are to be paid annually. The agreements are valid according to the terms of the software maintenance contract for the system module CARE.</p> | <p>76 7035 00</p> |

| Services   | Order no.         |
|--|-------------------|
| <p><b>Software support Function module UM/A</b></p> <p><i>Price/month per installed module</i></p> <p>Tunstall puts emphasis on the security of its systems as an elementary part of the service and security concept. As a result of networking the systems via partly unknown IT/IP infrastructures, cyber security is an increasingly important issue.</p> <p>Regular system and security updates are essential for system integrity. This is the only way to ensure that the nurse call system can be safely operated over many years and is always up to date.</p> <p>Any use of function modules installation on an IP-SystemManager requires the conclusion of a software maintenance contract.</p> <p><b>Scope of services</b></p> <ul style="list-style-type: none"> <li>• Updates at irregular intervals</li> <li>• Ensuring system integrity</li> <li>• Minor adaptations/improvements</li> <li>• Security patches</li> <li>• Executing the services during normal business hours</li> <li>• Updates during ongoing operation</li> </ul> <p><b>Prerequisites</b></p> <ul style="list-style-type: none"> <li>• Conclusion of a software maintenance contract</li> <li>• A remote connection to the nurse call system is required for performing updates</li> <li>• The remote access must be released after a necessary software maintenance has been announced</li> </ul> <p><b>Option</b></p> <p>If remote access is not available, software maintenance can also be carried out directly on site. In this case, the usual costs for a service visit will be charged additionally.</p> <p><b>Costs</b></p> <p>The costs for the software maintenance of the function module UM/A are to be paid annually. The agreements are valid according to the terms of the software maintenance contract for the function module UM/A.</p> | <p>76 7040 00</p> |

| Services  | Order no.         |
|---|-------------------|
| <p><b>Software support Function module UMS/A</b></p> <p><i>Price/month per installed module</i></p> <p>Tunstall puts emphasis on the security of its systems as an elementary part of the service and security concept. As a result of networking the systems via partly unknown IT/IP infrastructures, cyber security is an increasingly important issue.</p> <p>Regular system and security updates are essential for system integrity. This is the only way to ensure that the nurse call system can be safely operated over many years and is always up to date.</p> <p>Any use of function modules installation on an IP-SystemManager requires the conclusion of a software maintenance contract.</p> <p><b>Scope of services</b></p> <ul style="list-style-type: none"> <li>• Updates at irregular intervals</li> <li>• Ensuring system integrity</li> <li>• Minor adaptations/improvements</li> <li>• Security patches</li> <li>• Executing the services during normal business hours</li> <li>• Updates during ongoing operation</li> </ul> <p><b>Prerequisites</b></p> <ul style="list-style-type: none"> <li>• Conclusion of a software maintenance contract</li> <li>• A remote connection to the nurse call system is required for performing updates</li> <li>• The remote access must be released after a necessary software maintenance has been announced</li> </ul> <p><b>Option</b></p> <p>If remote access is not available, software maintenance can also be carried out directly on site. In this case, the usual costs for a service visit will be charged additionally.</p> <p><b>Costs</b></p> <p>The costs for the software maintenance of the function module UMS/A are to be paid annually. The agreements are valid according to the terms of the software maintenance contract for the function module UMS/A.</p> | <p>76 7040 01</p> |



| Services   | Order no.                                       |
|--|---|
| <p data-bbox="165 367 813 405"><b>Software support Function module UMS/T</b></p> <p data-bbox="165 412 600 448"><i>Price/month per installed module</i></p> <p data-bbox="165 472 1262 573">Tunstall puts emphasis on the security of its systems as an elementary part of the service and security concept. As a result of networking the systems via partly unknown IT/IP infrastructures, cyber security is an increasingly important issue.</p> <p data-bbox="165 598 1262 698">Regular system and security updates are essential for system integrity. This is the only way to ensure that the nurse call system can be safely operated over many years and is always up to date.</p> <p data-bbox="165 723 1262 790">Any use of function modules installation on an IP-SystemManager requires the conclusion of a software maintenance contract.</p> <p data-bbox="165 815 376 846"><b>Scope of services</b></p> <ul data-bbox="165 848 836 1106" style="list-style-type: none"> <li>• Updates at irregular intervals</li> <li>• Ensuring system integrity</li> <li>• Minor adaptations/improvements</li> <li>• Security patches</li> <li>• Executing the services during normal business hours</li> <li>• Updates during ongoing operation</li> </ul> <p data-bbox="165 1131 328 1162"><b>Prerequisites</b></p> <ul data-bbox="165 1164 1249 1319" style="list-style-type: none"> <li>• Conclusion of a software maintenance contract</li> <li>• A remote connection to the nurse call system is required for performing updates</li> <li>• The remote access must be released after a necessary software maintenance has been announced</li> </ul> <p data-bbox="165 1344 252 1375"><b>Option</b></p> <p data-bbox="165 1377 1238 1444">If remote access is not available, software maintenance can also be carried out directly on site. In this case, the usual costs for a service visit will be charged additionally.</p> <p data-bbox="165 1469 233 1500"><b>Costs</b></p> <p data-bbox="165 1503 1262 1603">The costs for the software maintenance of the function module UMS/T are to be paid annually. The agreements are valid according to the terms of the software maintenance contract for the function module UMS/T.</p> | <p data-bbox="1295 367 1434 398">76 7040 10</p> |

| Services  | Order no.         |
|---|-------------------|
| <p><b>Software support Function module MED</b></p> <p><i>Price/month per installed module</i></p> <p>Tunstall puts emphasis on the security of its systems as an elementary part of the service and security concept. As a result of networking the systems via partly unknown IT/IP infrastructures, cyber security is an increasingly important issue.</p> <p>Regular system and security updates are essential for system integrity. This is the only way to ensure that the nurse call system can be safely operated over many years and is always up to date.</p> <p>Any use of function modules installation on an IP-SystemManager requires the conclusion of a software maintenance contract.</p> <p><b>Scope of services</b></p> <ul style="list-style-type: none"> <li>• Updates at irregular intervals</li> <li>• Ensuring system integrity</li> <li>• Minor adaptations/improvements</li> <li>• Security patches</li> <li>• Executing the services during normal business hours</li> <li>• Updates during ongoing operation</li> </ul> <p><b>Prerequisites</b></p> <ul style="list-style-type: none"> <li>• Conclusion of a software maintenance contract</li> <li>• A remote connection to the nurse call system is required for performing updates</li> <li>• The remote access must be released after a necessary software maintenance has been announced</li> </ul> <p><b>Option</b></p> <p>If remote access is not available, software maintenance can also be carried out directly on site. In this case, the usual costs for a service visit will be charged additionally.</p> <p><b>Costs</b></p> <p>The costs for the software maintenance of the function module MED are to be paid annually. The agreements are valid according to the terms of the software maintenance contract for the function module MED.</p> | <p>76 7041 00</p> |

| Services   | Order no.                                       |
|--|---|
| <p data-bbox="165 367 762 405"><b>Software support Function module FAS</b></p> <p data-bbox="165 412 600 448"><i>Price/month per installed module</i></p> <p data-bbox="165 472 1262 573">Tunstall puts emphasis on the security of its systems as an elementary part of the service and security concept. As a result of networking the systems via partly unknown IT/IP infrastructures, cyber security is an increasingly important issue.</p> <p data-bbox="165 598 1262 698">Regular system and security updates are essential for system integrity. This is the only way to ensure that the nurse call system can be safely operated over many years and is always up to date.</p> <p data-bbox="165 723 1262 790">Any use of function modules installation on an IP-SystemManager requires the conclusion of a software maintenance contract.</p> <p data-bbox="165 815 376 846"><b>Scope of services</b></p> <ul data-bbox="165 848 836 1106" style="list-style-type: none"> <li>• Updates at irregular intervals</li> <li>• Ensuring system integrity</li> <li>• Minor adaptations/improvements</li> <li>• Security patches</li> <li>• Executing the services during normal business hours</li> <li>• Updates during ongoing operation</li> </ul> <p data-bbox="165 1131 328 1162"><b>Prerequisites</b></p> <ul data-bbox="165 1164 1249 1319" style="list-style-type: none"> <li>• Conclusion of a software maintenance contract</li> <li>• A remote connection to the nurse call system is required for performing updates</li> <li>• The remote access must be released after a necessary software maintenance has been announced</li> </ul> <p data-bbox="165 1344 252 1375"><b>Option</b></p> <p data-bbox="165 1377 1238 1444">If remote access is not available, software maintenance can also be carried out directly on site. In this case, the usual costs for a service visit will be charged additionally.</p> <p data-bbox="165 1469 233 1500"><b>Costs</b></p> <p data-bbox="165 1503 1259 1603">The costs for the software maintenance of the function module FAS are to be paid annually. The agreements are valid according to the terms of the software maintenance contract for the function module FAS.</p> | <p data-bbox="1294 367 1434 398">76 7042 00</p> |

| Services   | Order no.                                       |
|--|---|
| <p data-bbox="164 367 868 405"><b>Software support Function module VOIP GATE</b></p> <p data-bbox="164 412 601 448"><i>Price/month per installed module</i></p> <p data-bbox="164 472 1262 573">Tunstall puts emphasis on the security of its systems as an elementary part of the service and security concept. As a result of networking the systems via partly unknown IT/IP infrastructures, cyber security is an increasingly important issue.</p> <p data-bbox="164 598 1262 698">Regular system and security updates are essential for system integrity. This is the only way to ensure that the nurse call system can be safely operated over many years and is always up to date.</p> <p data-bbox="164 723 1262 790">Any use of function modules installation on an IP-SystemManager requires the conclusion of a software maintenance contract.</p> <p data-bbox="164 815 376 846"><b>Scope of services</b></p> <ul data-bbox="164 848 836 1106" style="list-style-type: none"> <li>• Updates at irregular intervals</li> <li>• Ensuring system integrity</li> <li>• Minor adaptations/improvements</li> <li>• Security patches</li> <li>• Executing the services during normal business hours</li> <li>• Updates during ongoing operation</li> </ul> <p data-bbox="164 1131 328 1162"><b>Prerequisites</b></p> <ul data-bbox="164 1164 1249 1319" style="list-style-type: none"> <li>• Conclusion of a software maintenance contract</li> <li>• A remote connection to the nurse call system is required for performing updates</li> <li>• The remote access must be released after a necessary software maintenance has been announced</li> </ul> <p data-bbox="164 1344 252 1375"><b>Option</b></p> <p data-bbox="164 1377 1238 1444">If remote access is not available, software maintenance can also be carried out directly on site. In this case, the usual costs for a service visit will be charged additionally.</p> <p data-bbox="164 1469 233 1500"><b>Costs</b></p> <p data-bbox="164 1503 1267 1603">The costs for the software maintenance of the function module VOIP GATE are to be paid annually. The agreements are valid according to the terms of the software maintenance contract for the function module VOIP GATE.</p> | <p data-bbox="1294 367 1434 398">76 7043 00</p> |






| Services   | Order no.         |
|--|-------------------|
| <p><b>Software support System module HEALTH</b></p> <p><i>Price/month per installed module</i></p> <p>Tunstall puts emphasis on the security of its systems as an elementary part of the service and security concept. As a result of networking the systems via partly unknown IT/IP infrastructures, cyber security is an increasingly important issue.</p> <p>Regular system and security updates are essential for system integrity. This is the only way to ensure that the nurse call system can be safely operated over many years and is always up to date.</p> <p>Any use of system modules for installation on an IP-SystemManager requires the conclusion of a software maintenance contract.</p> <p><b>Scope of services</b></p> <ul style="list-style-type: none"> <li>• Updates at irregular intervals</li> <li>• Ensuring system integrity</li> <li>• Minor adaptations/improvements</li> <li>• Security patches</li> <li>• Executing the services during normal business hours</li> <li>• Updates during ongoing operation</li> </ul> <p><b>Prerequisites</b></p> <ul style="list-style-type: none"> <li>• Conclusion of a software maintenance contract</li> <li>• A remote connection to the nurse call system is required for performing updates</li> <li>• The remote access must be released after a necessary software maintenance has been announced</li> </ul> <p><b>Option</b></p> <p>If remote access is not available, software maintenance can also be carried out directly on site. In this case, the usual costs for a service visit will be charged additionally.</p> <p><b>Costs</b></p> <p>The costs for the software maintenance of the system module HEALTH are to be paid annually. The agreements are valid according to the terms of the software maintenance contract for the system module HEALTH.</p> | <p>76 7130 00</p> |





| Services  | Order no.         |
|---|-------------------|
| <p><b>Software support System module CARE</b></p> <p><i>Price/month per installed module</i></p> <p>Tunstall puts emphasis on the security of its systems as an elementary part of the service and security concept. As a result of networking the systems via partly unknown IT/IP infrastructures, cyber security is an increasingly important issue.</p> <p>Regular system and security updates are essential for system integrity. This is the only way to ensure that the nurse call system can be safely operated over many years and is always up to date.</p> <p>Any use of system modules for installation on an IP-SystemManager requires the conclusion of a software maintenance contract.</p> <p><b>Scope of services</b></p> <ul style="list-style-type: none"> <li>• Updates at irregular intervals</li> <li>• Ensuring system integrity</li> <li>• Minor adaptations/improvements</li> <li>• Security patches</li> <li>• Executing the services during normal business hours</li> <li>• Updates during ongoing operation</li> </ul> <p><b>Prerequisites</b></p> <ul style="list-style-type: none"> <li>• Conclusion of a software maintenance contract</li> <li>• A remote connection is required to update the updates.</li> <li>• A remote connection to the nurse call system is required for performing updates</li> <li>• The remote access must be released after a necessary software maintenance has been announced</li> </ul> <p><b>Option</b></p> <p>If remote access is not available, software maintenance can also be carried out directly on site. In this case, the usual costs for a service visit will be charged additionally.Costs</p> <p><b>Costs</b></p> <p>The costs for the software maintenance of the system module CARE are to be paid annually. The agreements are valid according to the terms of the software maintenance contract for the system module CARE.</p> | <p>76 7135 00</p> |





| Services   | Order no.  |
|--|------------|
| <p><b>PrimusGlobal+ System set-up &amp; configuration</b></p> <p>The PrimusGlobal+ software family effectively complements the Flamenco nurse call system. Basic installation work for operating the system and installation/preparation of the relevant function modules, components, and drivers.</p> <p>Hardware is prepared and tested according to the specific requirements.</p> <p>The hierarchic structure for the user screen surface is established according to the requirements.</p> <p>Scope of services:</p> <ul style="list-style-type: none"> <li>• Installation of the operating system</li> <li>• Installation of functional units, modules and drivers</li> <li>• Preparation of hardware and functional checks</li> <li>• Set-up of operating structure and surface</li> <li>• Various function checks and documentation of the configuration</li> </ul> | 77 0790 00 |
| <p><b>PrimusGlobal+ Project data, block graphics</b></p> <p><i>Maximum 36 rooms</i></p> <p>Additionally to the system set-up &amp; configuration the single rooms have to be configured according to the project specific requirements. The project specific data and designations for buildings, wards and rooms are established. The individual display elements for rooms and wards are placed and activated in the desired way. Presentation as standard graphic elements.</p> <ul style="list-style-type: none"> <li>• Entering project specific data</li> <li>• Using block graphics</li> </ul>  | 77 0790 01 |
| <p><b>PrimusGlobal+ Project data, layout graphics</b></p> <p><i>Maximum 36 rooms</i></p> <p>Additionally to the system set-up &amp; configuration the single rooms have to be configured according to the project specific requirements. The project specific data and designations for buildings, wards and rooms are established. The individual display elements for rooms and wards are placed and activated in the desired way. Presentation in compliance with the plan view.</p> <ul style="list-style-type: none"> <li>• Entering project specific data</li> <li>• Importing CAD data for usage as plan view</li> <li>• Adaptation of the delivered plan views for preparing them as display levels</li> </ul> <p>The plan views have to be delivered by the customer as CAD files.</p>  | 77 0790 02 |





# Appendix: Accessories






| Specification   | Order no.  |   |
|---|------------|---|
| <p><b>Push-wire connector for junction boxes, 5-pole</b></p> <p>e.g. for connection socket ComStation.</p> <p>Wire cross-section: 0.5 - 2.5 mm<sup>2</sup></p>  | 00 0210 21 |    |
| <p><b>Push-wire connector for junction boxes, 4-pole</b></p> <p>e.g. for ControlTerminal Flamenco, ControlTerminal with doorplate Flamenco, for interconnecting non used NF wires.</p> <p>Wire diameter: 0.6 - 0.8 mm</p>   | 00 0222 88 |    |
| <p><b>Connector, 5-pole</b></p> <p>e.g. for connection socket with call switch</p> <p>Plug-in screw clamp e.g. for the connection of connection socket with call switch (70 0171 60...) or connection socket with call switch, bedhead unit (70 0171 50).</p> <ul style="list-style-type: none"> <li>Screw connections up to 1.5 mm<sup>2</sup></li> <li>Distort protection</li> </ul> <p>Dimensions (HxWxD): 10 x 20 x 19 mm</p> | 00 0211 37 |   |
| <p><b>Steel loudspeaker frame</b></p> <p>for loudspeaker with announcement interface, order no. 05 0024 01.</p> <ul style="list-style-type: none"> <li>Weight: approx. 600 g</li> <li>Fire protection rating to B2 (DIN 4102)</li> </ul> <p>Diameter of ceiling cut-out: 243 mm<br/>Installation depth: approx. 150 mm</p> <p>(Note on figure: Loudspeaker not included with delivery.)</p>                                       | 00 0272 48 |  |
| <p><b>Surface mounting frame</b></p> <p>for room signal lamps</p> <ul style="list-style-type: none"> <li>Material: ABS</li> </ul> <p>Dimensions (HxWxD): 80 x 86 x 21 mm</p>  | 00 0281 26 |  |



| Specification   | Order no.  |   |
|---|------------|---|
| <p><b>Terminating resistor 120 Ohm</b></p> <p>as bus termination in the last bus user.</p>  | 00 0040 76 |    |
| <p><b>Telephone interface relay</b></p> <p>for connecting analogues telephones to a nurse call system. A telephone call will be displayed as a call in the nurse call system.</p> <ul style="list-style-type: none"> <li>• Call voltage: 32 – 80 V AC</li> <li>• Power supply: 5 – 40 V</li> <li>• ON/OFF switch</li> <li>• Output: N/C, N/O contact</li> <li>• Bridging of call intervals can be set</li> <li>• Power-on time can be set.</li> </ul> <p><i>Dimensions (HxWxD): 70 x 35 x 70 mm</i><br/> <i>Mounting on a 35 mm top hat rail.</i></p>   | 11 5350 00 |   |
| <p><b>Line transformer, 3 channel</b><br/> <i>(100/25 V, 1 VA per channel)</i></p> <p>to transform the entertainment voltages from 100 V<sub>eff</sub> to 25 V<sub>eff</sub>. One transformer is required per entertainment channel.</p> <p>Mounting on top-rat rail (35 mm). Suitable to be integrated into distributor units.</p> <ul style="list-style-type: none"> <li>• Potential separation</li> <li>• Input voltage: 100 V<sub>eff</sub></li> <li>• Output voltage: 25 V<sub>eff</sub></li> <li>• Max. output power: 1 VA, per channel</li> <li>• Frequency response: 50 Hz – 10 kHz</li> </ul> <p><i>Dimensions (HxWxD): 90 x 106 x 58 mm</i></p> | 14 1030 00 |  |
| <p><b>Back box solid wall, 1-gang</b><br/> <i>Installation opening: Ø 60 mm</i></p> <p>Depth: 46 mm</p>   | 17 0100 00 |  |




| Specification  | Order no.  |   |
|--|------------|---|
| <p><b>Back box solid wall, 2-gang</b><br/> <i>Installation opening: 140 x 60 x 42 mm, oval</i></p> <p>Without divider</p>  | 17 0410 00 |    |
| <p><b>Back box partition wall 1-gang</b><br/> <i>Burr hole: Ø 68 mm</i></p> <p>Depth: 47 mm</p>  | 17 5100 00 |    |
| <p><b>Back box partition wall 1-gang</b><br/> <i>Burr hole: Ø 2 x 68 mm, oval</i></p> <p>Depth: 47 mm, centre distance: 71 mm, without divider</p>   | 17 5400 00 |   |
| <p><b>Connection cable</b></p> <p>e.g. for connection socket with call switch (70 0171 60...) or connection socket with call switch, bedhead unit (70 0171 50): for the connection of a call device to the additional, external call input.</p> <ul style="list-style-type: none"> <li>Length: 50 cm</li> </ul>  | 50 0308 02 |  |
| <p><b>Patient handset bracket</b><br/> <i>for holding a patient handset.</i></p> <ul style="list-style-type: none"> <li>Wear resistant</li> <li>Integrated installation for switching the volume of the handset put in it</li> <li>Can be installed vertically or horizontally</li> <li>Weight: 120 g</li> <li>Colour: RAL 9018 papyrus white</li> <li>Material: ABS</li> </ul> <p><i>Dimensions (HxWxD): 198 x 57 x 18 mm</i></p> | 70 0800 00 |  |

| Specification   | Order no.  |   |
|---|------------|---|
| <p><b>Patient handset bed bracket Völker</b></p> <p>for holding a patient handset. For use with a bed from Völker company.</p> <ul style="list-style-type: none"> <li>• Wear resistant</li> <li>• Integrated installation for switching the volume of the handset put in it</li> <li>• Direct fixing on a bed from Völker company</li> <li>• Weight: 150 g</li> <li>• Colour: light grey</li> <li>• Material: ABS / PC</li> </ul> <p><i>Dimensions (HxWxD): 198 x 100 x 60 mm</i></p> | 70 0800 10 |    |
| <p><b>Headphone</b></p> <p>Dynamic headphone to listen discretely to entertainment/TV programmes in connection with an ePat<sup>®lite</sup> or a patient handset.</p> <ul style="list-style-type: none"> <li>• Jack connector 3.5 mm</li> <li>• 2 earpieces with support</li> <li>• Total impedance: 16 Ohm</li> <li>• 1.8 m connection cable</li> </ul>  | 70 0801 00 |   |
| <p><b>Connector, 3-pole</b></p> <p>Plug-in screw clamp for connection of room bus (RAN) for the switches and the room lamps with RAN connection.</p> <ul style="list-style-type: none"> <li>• Labelled connections</li> <li>• Screw connections up to 1.5 mm<sup>2</sup></li> <li>• Distort protection</li> </ul> <p><i>Dimensions (HxWxD): 10 x 11 x 15 mm</i></p>   | 70 0807 00 |  |
| <p><b>Connector, 7-pole</b><br/><i>e.g. for room lamps universal</i></p> <p>Plug-in screw clamp e.g. for the connection of room lamps universal.</p> <ul style="list-style-type: none"> <li>• Screw connections up to 1.5 mm<sup>2</sup></li> <li>• Distort protection</li> </ul> <p><i>Dimensions (HxWxD): 10 x 28 x 15 mm</i></p>   | 70 0807 07 |  |



| Specification  | Order no.  |   |
|--|------------|---|
| <p><b>Connection cable for call devices</b><br/>for connection socket 700xxxxx</p> <ul style="list-style-type: none"> <li>Free wire ends for the connection of an external call device</li> <li>Plug for plug-in connection to a connection socket, socket for pear push switch</li> <li>Length: 2 m</li> <li>Packing unit = 5</li> </ul>  | 70 0812 00 |    |
| <p><b>Diagnostic connection cable</b><br/>for connection socket 700xxxxx</p> <p>Connection cable for connecting a medical electrical device to the nurse call system via a connection socket, order no. 70 0xxx xx, in order to trigger a diagnostic call in the nurse call system for alarms of the medical electrical equipment.</p> <p>Warning! The transmission of alarm conditions of medical electrical equipment (e.g. monitoring devices) to the nurse call system serves only as supporting, additional information. This is a distributed information system. Due diligence for the operation of such medical electrical equipment remains unaffected in case of the connection to the nurse call system.</p> <ul style="list-style-type: none"> <li>Free wire ends for the connection of a medical electrical device</li> <li>Plug for plug-in connection to a connection socket, socket for pear push switch</li> <li>Length: 2 m</li> </ul> | 70 0812 10 |   |
| <p><b>RAN interface universal</b></p> <p>Interface for the connection of external actuators being controlled by the patient handset (as of 11/2015), e.g. blinds upwards / blinds downwards. Transferring the signals in combination with connection socket combi, order no. 70 0424 00, or connection socket combi, bedhead unit, order no. 70 0434 00 (as of 11/2015).</p> <ul style="list-style-type: none"> <li>6 potential-free normally open contacts (2 of these are in use)</li> <li>Maximum contact load: 60 mA / 24 V</li> <li>Control by one or all patient handsets universal in the room</li> <li>Connection to the room bus (RAN).</li> <li>Intended for mounting on a 35 mm support rail</li> </ul> <p><i>Dimensions (HxWxD): 76 x 72 x 41 mm</i></p>   | 70 0848 00 |  |


| Specification  | Order no.         |  |
|--|-------------------|--|
| <b>TV installation kit</b>   | 74 7002 56/<br>15 |  |
| <b>TV wall mount “Base”</b> <ul style="list-style-type: none"> <li>• One pivot point</li> <li>• Inclinable, rotatable</li> <li>• Vesa MIS-D, 100, MIS-D, 75</li> <li>• Additional adapters for VESA MIS-E 200x200mm</li> </ul>                   | 74 7002 80        |  |
| <b>TV wall mount “Advance”</b> <ul style="list-style-type: none"> <li>• Two pivot points</li> <li>• Inclinable, rotatable and expandable</li> <li>• Vesa MIS-D, 100, MIS-D, 75</li> <li>• Additional rails for VESA MIS-E 200x200mm</li> </ul>   | 74 7002 81        |  |
| <b>TV wall mount “Comfort”</b> <ul style="list-style-type: none"> <li>• Three pivot points</li> <li>• Inclinable, rotatable and expandable</li> <li>• Vesa MIS-D, 100, MIS-D, 75</li> <li>• Additional rails for VESA MIS-E 200x200mm</li> </ul> | 74 7002 82        |  |
| <b>Leather wristband MyAmie, white</b> <p>for radio trigger, order no. P6800x/0x.</p> <ul style="list-style-type: none"> <li>• Packing unit: 1</li> </ul> <p><i>Dimensions (LxW): approx. 255 x 20 mm</i></p>                                    | 75 0870 62        |  |
| <b>Leather wristband MyAmie, black</b> <p>for radio trigger, order no. P6800x/0x.</p> <ul style="list-style-type: none"> <li>• Packing unit: 1</li> </ul> <p><i>Dimension (LxW): approx. 255 x 20 mm</i></p>                                     | 75 0870 63        |  |




| Specification  | Order no.         |   |
|--|-------------------|---|
| <p><b>19" Mounting set</b></p> <p>Mounting set for installation of the IP-SystemManager in a 19" system cabinet.</p> <p>Sheet steel frame with pre-mounted top-hat rail and front cover. Integrated cable catch, strain relief and necessary accessories are included.</p> <p>Intended for the installation of up to two IP-SystemManagers and/or the installation of OSYlink modules in 19" system cabinets</p> <p><i>Dimensions (HxWxD): 132.5 x 482.6 x 180 mm</i><br/> <i>Type of mounting: 19", 3 U</i><br/> <i>Colour: Zinc-coated frame, red front cover</i><br/> <i>Frame material: Zinc-coated sheet steel</i><br/> <i>Top-hat rail: TS 35/7.5, width: 425 mm</i></p> | <p>76 0900 01</p> |    |
| <p><b>Mounting set for 10" wall mounting cabinet</b></p> <p>Mounting set for installation of equipment into 10" mounting cabinet.</p> <p>Sheet steel frame with pre-mounted top-hat rail. Integrated cable catch, strain relief and necessary accessories are included.</p> <p>Suitable e.g. for the installation of a power supply unit (77 3410 00) with an UPS control unit or for the installation of an IP-SystemManager with a power supply unit (77 3410 00).</p> <p><i>Dimensions (HxWxD): 132.5 x 260 x 180 mm</i><br/> <i>Type of mounting: 10", 2 U</i><br/> <i>Frame material: Zinc-coated sheet steel</i><br/> <i>Top-hat rail: TS 35/7,5, width: 203 mm</i></p>  | <p>76 0900 02</p> |  |


| Specification  | Order no.  |   |
|--|------------|---|
| <p><b>Network isolator LAN</b></p> <p>External network isolator for galvanic network separation according to EN 60601-1.</p> <ul style="list-style-type: none"> <li>• Dielectric strength of signal and shielding: 5000 V</li> <li>• Operating mode: Continuous operation</li> <li>• Data throughput: 10/100/1000 MBit/s</li> <li>• Ports: 2x RJ45</li> <li>• Network specifications: IEEE 802.3</li> <li>• Standards:<br/>Safety: EN / IEC 60601-1 3rd<br/>EMC: EN / IEC 60601-1-2</li> </ul> <p><i>Dimensions (HxWxD): 23 x 29 x 65 mm</i><br/><i>Weight: approx. 50 g</i></p> | 76 5000 00 |    |
| <p><b>Interface isolator RS232</b></p> <p>4 kV galvanic separated RS 232 isolator provides effective protection against external influences and fulfils the standard IEC 61850-3.</p> <ul style="list-style-type: none"> <li>• 4 kV RSM galvanic separation</li> <li>• 15 kV ESD protection</li> <li>• Supply voltage: 24 V DC (from the nurse call system), max. 1 W</li> <li>• Diagnostic LEDs</li> <li>• Standard: IEC 61850-3</li> <li>• Mounting on top-hat rail (35 mm)</li> </ul> <p><i>Dimensions (HxWxD): 99 x 22.5 x 92 mm</i><br/><i>Weight: approx. 100 g</i></p>    | 76 5010 00 |  |
| <p><b>Room lamp universal, 2 sections</b></p> <p>Signal lamp without RAN connection with 2 light sections for optical signalling of staff presence 1 and telephone call as single display.</p> <p>Use e.g. together with ComStation<sup>BUS-C</sup> or ComStation<sup>PC</sup>.</p> <ul style="list-style-type: none"> <li>• Green LED: staff group 1</li> <li>• White LED: telephone call</li> </ul> <p><i>Dimensions (HxWxD): 110 x 150 x 40 mm</i></p>  | 77 0182 10 |  |






| Specification  | Order no.  |  |
|--|------------|--|
| <p><b>Room lamp universal, 2 sections, glass decor</b></p> <p>Signal lamp without RAN connection with 2 light sections for optical signalling of staff presence 1 and telephone call as single display. Decorative glass frame.</p> <p>Use e.g. together with ComStation<sup>BUS-C</sup> or ComStation<sup>PC</sup>.</p> <ul style="list-style-type: none"> <li>• Green LED: staff group 1</li> <li>• White LED: telephone call</li> </ul> <p><i>Dimensions (HxWxD): 110 x 150 x 40 mm</i></p>   | 77 0185 20 |   |
| <p><b>Doorplate universal</b></p> <p>Doorplate without light sections, universally applicable.</p> <p>Design adapted to Flamenco product family.</p> <p>Suitable for wall mounting in corridors or rooms. Modular design.</p> <ul style="list-style-type: none"> <li>• Universal, modular doorplate</li> <li>• Label easy to change</li> <li>• Utility patent (DPMA)</li> <li>• Design patent (DPMA)</li> <li>• Easy installation</li> </ul> <p><i>Dimensions (HxWxD): 190 x 150 x 40 mm</i><br/> <i>Label field (HxW): approx. 70 x 92 mm</i></p> | 77 0189 00 |  |





| Specification   | Order no.  |   |
|---|------------|---|
| <p><b>LED module, red</b></p> <p>Intended use in room lamps, order no. 77 017x xx and 77 018x xx.</p> <ul style="list-style-type: none"> <li>• Applicable for all call types</li> <li>• Power supply: 24 V / 60 mA</li> </ul> <p>Dimensions (HxWxD): 8 x 72 x 11 mm</p>             | 77 0190 00 |   |
| <p><b>LED module, yellow</b></p> <p>Intended use in room lamps, order no. 77 017x xx and 77 018x xx.</p> <ul style="list-style-type: none"> <li>• Applicable for staff presence 2</li> <li>• Power supply: 24 V / 60 mA</li> </ul> <p>Dimensions (HxWxD): 8 x 72 x 11 mm</p>        | 77 0190 01 |   |
| <p><b>LED module, green</b></p> <p>Intended use in room lamps, order no. 77 017x xx and 77 018x xx.</p> <ul style="list-style-type: none"> <li>• Applicable for staff presence 1</li> <li>• Power supply: 24 V / 60 mA</li> </ul> <p>Dimensions (HxWxD): 8 x 72 x 11 mm</p>         | 77 0190 02 |  |
| <p><b>LED module, white</b></p> <p>Intended use in room lamps, order no. 77 017x xx and 77 018x xx.</p> <ul style="list-style-type: none"> <li>• Applicable for WC calls</li> <li>• Power supply: 24 V / 60 mA</li> </ul> <p>Dimensions (HxWxD): 8 x 72 x 11 mm</p>                 | 77 0190 03 |   |
| <p><b>LED module, blue</b></p> <p>Intended use in room lamps, order no. 77 017x xx and 77 018x xx.</p> <ul style="list-style-type: none"> <li>• Applicable for Cardiac alarm (code blue)</li> <li>• Power supply: 24 V / 60 mA</li> </ul> <p>Dimensions (HxWxD): 8 x 72 x 11 mm</p> | 77 0190 04 |   |



| Specification  | Order no.  |   |
|--|------------|---|
| <p><b>Surface mounting box 1-gang for frames A, F</b></p> <p>e.g. for surface mounting of switches, product range 77 021x xx A and 77 021x xx F.</p> <ul style="list-style-type: none"> <li>• Surface mounting box incl. necessary accessories</li> <li>• Colour: studio white</li> <li>• Housing material: Polycarbonate</li> </ul> <p><i>Dimensions (HxWxD): 80 x 80 x 42 mm</i></p>   | 77 0210 55 |    |
| <p><b>Surface mounting box 2-gang for frames A, F</b></p> <p>e.g. for surface mounting of connection socket ComStation (77 0452 30 A or 77 0452 30 F) or of connection socket ComStation<sup>PC</sup> (77 0452 60 A or 77 0452 60 F).</p> <ul style="list-style-type: none"> <li>• Surface mounting box incl. necessary accessories</li> <li>• Colour: studio white</li> <li>• Housing material: Polycarbonate</li> </ul> <p><i>Dimensions (HxWxD): 80 x 151 x 42 mm</i></p> | 77 0210 61 |   |
| <p><b>IR TV control module installation kit</b><br/><i>for IR TV control module universal</i></p> <ul style="list-style-type: none"> <li>• Loader for convenient and fast transfer of the configuration to further IR TV control modules</li> <li>• Terminal program on USB stick</li> <li>• USB to TTL adapter cable</li> </ul>   | 77 0360 40 |  |

| Specification   | Order no.  |   |
|---|------------|---|
| <p><b>NTP TimeServer/DCF</b></p> <p>The TimeServer receives time signals using DCF77 signals.</p> <p>It is a stand alone version and transfers the time signals via the Ethernet using the SNTP protocol.</p> <p>When connected to the IP network of the Flamenco<sup>IP</sup> or Flamenco nurse call system the system time will be updated automatically.</p> <ul style="list-style-type: none"> <li>• Aluminium profile case, mounting on top-hat rail</li> <li>• Power supply: 19 – 72 VDC</li> <li>• Power consumption: 20 W</li> <li>• Receiving antenna in a waterproof plastic case for outdoor application</li> <li>• Web based status and configuration programme and graphic configuration tool for the console access</li> </ul> <p>Note: When the device is connected to the 24 V power supply of the nurse call system, the LAN port must be equipped with a separator according to DIN VDE 0834, e.g. network isolator LAN, 76 5000 00.</p> <p><i>Dimensions (HxWxD): 105 x 125,5 x 189 mm</i></p> | 77 0910 10 |    |
| <p><b>OSYnet-Connecting plug</b></p> <p>for OSYnet-Y-RepeaterOpto.</p>  | 77 0950 00 |  |
| <p><b>ControlTerminal Installation kit</b></p> <p>for mounting a ControlTerminal to a standard two gang back box.</p> <ul style="list-style-type: none"> <li>• Mounting plate, light grey</li> <li>• 4-pole connector, up to 2.5 mm<sup>2</sup></li> <li>• 2 insertion bridges</li> <li>• 8-pole connector</li> <li>• Fixing screws</li> <li>• Pre-mounted</li> </ul>   | 77 0960 00 |  |

| Specification  | Order no.         |   |
|--|-------------------|---|
| <p><b>10" Wall mounting cabinet, 6U, GD</b></p> <p>Wall mounting cabinet, e.g. for the installation of a power supply unit (77 3410 00) with UPS control unit and battery module or for the installation of an IP-SystemManager with a power supply unit (77 3410 00).</p> <ul style="list-style-type: none"> <li>• Single opening glass front door, lockable</li> <li>• 200° door opening angle</li> <li>• 254 mm (10") profile rails on the front, variable in depth</li> <li>• Load capacity of profile rails: 30 kg</li> <li>• Ingress protection code IP20</li> <li>• 1.1 – 1.5 mm strong sheet steel with a high loading capacity, powder coated</li> <li>• Cable entry with brush strip on the top and plastic cover on the base</li> <li>• Ventilation slots for active and passive ventilation and exhausting</li> </ul> <p><i>Weight: 5.5 kg</i><br/> <i>Dimensions (HxWxD): 330 x 312 x 300 mm</i></p>  | <p>77 3510 06</p> |    |
| <p><b>19" Wall mounting cabinet, 7U, GD</b></p> <p>Wall mounting cabinet, e.g. for the installation of two power supply units (77 3410 00) each with UPS control unit and battery module or for the installation of an IP-SystemManager with a power supply unit (77 3410 00), a UPS power control unit and a battery module.</p> <ul style="list-style-type: none"> <li>• Lockable safety-glass door with lateral metal struts</li> <li>• 210° door opening angle</li> <li>• 483 mm (19") profile rails mounted on the front side inside of the cabinet, are adjustable in depth</li> <li>• Load capacity of profile rails: 100 kg</li> <li>• Ingress protection code IP20</li> <li>• 1.1 – 1.5 mm strong sheet steel with a high loading capacity, powder coated</li> <li>• Cable entry on the rear side and base chassis with plastic cover and top with sliding cover</li> <li>• Roof is prepared for fan units (punched out entries)</li> <li>• Ventilation slots for active and passive ventilation and exhausting</li> </ul> <p><i>Weight: 17 kg</i><br/> <i>Dimensions (HxWxD): 420 x 600 x 450 mm</i></p> | <p>77 3519 07</p> |  |

| Specification  | Order no.          |   |
|--|--------------------|---|
| <p><b>19" Wall mounting cabinet, 12U, GD</b></p> <p>Wall mounting cabinet, e.g. for the installation of two IP-SystemManagers, each with power supply unit (77 3410 00), UPS control unit and battery module.</p> <ul style="list-style-type: none"> <li>• Lockable safety-glass door with lateral metal struts</li> <li>• 210° door opening angle</li> <li>• 483 mm (19") profile rails mounted on the front side inside of the cabinet, are adjustable in depth</li> <li>• Load capacity of profile rails: 100 kg</li> <li>• Ingress protection code IP20</li> <li>• 1.1 – 1.5 mm strong sheet steel with a high loading capacity, powder coated</li> <li>• Cable entry on the rear side and base chassis with plastic cover and top with sliding cover</li> <li>• Roof is prepared for fan units (punched out entries)</li> <li>• Ventilation slots for active and passive ventilation and exhausting</li> </ul> <p><i>Weight: 25 kg</i><br/> <i>Dimensions (HxWxD): 643 x 600 x 450 mm</i></p> | <p>77 3519 12</p>  |  |
| <p><b>System computer</b></p> <p>System computer for the control of a ManagementCenter<sup>PC</sup> or a ComStation<sup>PC</sup> or for operating autonomous working software applications.</p> <p>Minimum configuration compatible to:</p> <ul style="list-style-type: none"> <li>• Hard drive</li> <li>• Memory: 8 GB DDR4</li> <li>• Graphic card</li> <li>• Optical drive: DVD writer</li> <li>• 2 network cards</li> <li>• Integrated loudspeaker</li> <li>• USB keyboard and USB mouse</li> <li>• Operating system Microsoft Windows 10 Professional 64-bit</li> <li>• Power supply: 230 V/50 Hz</li> </ul> <p>The specification will be the standard specification at the time of delivery. Further details on request.</p>   | <p>80 6010 00D</p> |   |

| Specification  | Order no.  |  |
|--|------------|--|
| <p><b>LCD monitor 19"</b></p> <p>Desktop installation.</p> <ul style="list-style-type: none"> <li>• TFT-LCD with white LED system</li> <li>• Signal input: D-Sub (analogue), DVI (digital)</li> <li>• Resolution: 1280 x 1024 Pixel</li> <li>• Contrast: 5M:1</li> <li>• Brightness: 250 cd/m<sup>2</sup></li> <li>• Mark: TCO 5.0</li> <li>• Loudspeaker</li> <li>• Power supply: 230 V/50 Hz</li> </ul> <p>The specification will be the standard specification at the time of delivery. Further details on request.</p> | 80 6049 00 |  |
| <p><b>Wrist strap (10 mm) MyAmie</b><br/>for radio trigger, order no. P6800x/0x.</p> <ul style="list-style-type: none"> <li>• Packing unit: 10</li> </ul> <p><i>Dimensions (LxW): approx. 180 x 10 mm</i></p>  | D6702135   |   |
| <p><b>Belt clip MyAmie</b></p> <p>for radio trigger, order no. P6800x/0x. As an option the belt clip can be used for mounting the radio trigger on the wall, so that you have a fixed call switch.</p> <ul style="list-style-type: none"> <li>• Packing unit: 10</li> </ul>  | D6702136   |  <p>MyAmie<br/>not included with delivery</p> |
| <p><b>Neckcord MyAmie, white</b></p> <p>for radio trigger, order no. P6800x/0x.</p> <ul style="list-style-type: none"> <li>• Packing unit: 10</li> </ul>   | D6702137   |   |
| <p><b>Wrist strap (20 mm) MyAmie</b></p> <p>for radio trigger, order no. P6800x/0x.</p> <ul style="list-style-type: none"> <li>• Packing unit: 10</li> </ul> <p><i>Dimensions (LxW): approx. 210 x 10 mm</i></p>   | D6702145   |   |

| Specification   | Order no.    |   |
|---|--------------|---|
| <p><b>Neckcord MyAmie, black</b></p> <p>for radio trigger, order no. P6800x/0x.</p> <ul style="list-style-type: none"> <li>• Packing unit: 10</li> </ul>  | D6702155A    |  |
| <p><b>Magnetic wall bracket</b><br/><i>for radio receiver</i></p> <p>Wall bracket for magnetic mounting of a radio receiver-T, order no. Z 00 8202 3x to the wall beside the connection socket.</p> <p><i>Dimensions (HxWxD): 64 x 40 x 12 mm</i></p> | Z 00 8202 21 |  |