Clinos

Communication and signalling systems
for hospitals and similar places

Clinos.
Advanced flexible solutions for better management of the safety and comfort of patients in hospitals.

Clinos

Communication and signalling systems for hospitals and similar places

Symbols used and information

Included in the supply for each item,
list of components supplied but not shown

Information, important notes including
the special versions, dependencies, etc.

Packing unit

Warning on the packing unit:

- 1. The item is packaged for sale.
- 2. The number of items to be ordered always refers to the numbers of packing units rather than the number of individual pieces.

Example of item number 701040 (spare glass):
Packing unit: 10 pcs For example, an order for 3 items is equivalent to an order for 3 packing units, i.e. 30 spare pieces of glass.

IP protection class
The type of protection indicates the suitability of the electric resources (for example, devices, lights and equipment) under different operating conditions as well as personal protection from potential damage during the use of these resources.

The Table below explains the significance of the numbers.

—

Level of protection from accidental contact and foreign bodies (first digit)

Number	Protection from accidental contact	Protection from foreign bodies
0	Not protected	Not protected
1	Protection from entry of foreign bodies larger than body (diameter 50 mm)	Large-sized foreign objects (diameter 50 mm or more)
2	Protection from accidental contact of fingers (diameter 12 mm)	Medium large foreign objects (diameter 12.5 mm or more, length up to 80 mm)
3	Tools and wires (diameter 2.5 mm or more) Large sized foreign objects (diameter 2.5 mm or more)	
4	Large-sized foreign objects (diameter 1 mm or more)	Granular foreign bodies (diameter 1 mm or more)
5 (K)	Wire protection (as IP 4), protected from dust	Not completely dust-proof
6 (K)	Wire protection (as IP 4), completely dust-proof	No entry of dust

—

Level of protection from water (second digit)

Number	Protection from water
0	Not protected
1	Protection from vertically dripping water drops
2	Protection from water drops falling with a max. inclination of 15°.
3	Protection from water sprays falling with a max. inclination of 60°.
4	Protection from water splashing from all directions
5	Protection from water jets (from a nozzle) from any angle
6	Protection from powerful water jets (flooding)
7	Protection from temporary submersion
8	Protection from permanent submersion

Example:
Protection I P64: Completely dust-proof and protected from water splashes coming from all directions.

The Clinos system

The Clinos system
General description and comparison with traditional systems

The Clinos system is specially designed for hospitals, clinics, care homes, rehabilitation clinics, community residences and similar facilities.
In all these places it is essential to install systems that allow staff to perform their duties with maximum efficiency and efficacy and, at the same time, guarantee the remote communication between individual patients and the medical and nursing staff present.

The Clinos system complies with the national and international Standards that regulate the design and realisation of optical signalling and communication systems:

DIN VDE 0834
Call systems with definitions.
Luminous call systems: installation, devices, call indications.

DIN VDE 0834, Part 1 and 2: 2000-04
Call systems in hospitals, care homes and similar institutions.

Clinos is the evolution of systems that perform the traditional functions of optical-acoustic signalling, providing, for example:

- detailed information on the priority level and origin of calls
- easily understandable information thanks to alphanumeric displays and video terminals
- automatic disclosure of information in all the rooms where the presence of service staff is registered
- immediate localisation of service staff, identifiable separately as belonging to the category of doctors or nurses
- possibility of connecting additional internal signals, like fire alarms, technical alarms, etc.
- possibility of interfacing with DECT systems.

The calls and presence signals can be displayed in every room, for example duty rooms and patient rooms, and controlled from there.

The Clinos system makes it possible to satisfy every application need, by realising systems with full duplex two-way communication between the individual patient and the service staff.

The Clinos system
General description and comparison with traditional systems

Clinos is an important technological and qualitative leap from the traditional system. Thanks to the solutions adopted, important results can be obtained, including easy use, savings in installation and management and improvement of the service provided.

The main strong points of the system are:

- **easy wiring**
  Clinos uses wiring with bus technology for connection between devices.
  This means that all the data and information travel on a single twin-core cable, thereby saving on material and on the time taken for installing the wiring. Furthermore, a cable with 6 conductors can be used to bring the power supply and telephony to the various devices.
  The possibility of using a simple 6-conductor cable compared to the tradition large bundle of cables (or thick multi-pin cable) used, facilitates the installation to a considerable extent, cutting down installation times.

- **modularity**
  Clinos uses a modular technology, thereby allowing development of the system over time, starting from basic functions and subsequently adding other functions, without nullifying the investments already made.

- **service continuity and easy maintenance**
  Thanks to the internal self-diagnosis and fault detection functions, Clinos allows immediate identification of any faults. If necessary, the electronic modules can be replaced without the need to interrupt the working of the system, thus ensuring the continuity of service. Moreover, the electronic room control modules are installed in the corridor and can therefore be replaced without the need to enter the patient's room. There is thus no disturbance to the patients, and doctors and nurses can continue to operate peacefully as required, while technical maintenance personnel can act promptly.


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The Clinos system
Structure of the system

The structure of the Clinos system reflects the organisation of the environment in which to work.

Each system consists of one or more zones, which may include wards, floors or wings of a hospital structure. Each zone consists of one or more rooms, like the patient rooms, duty rooms and common service rooms. Finally, each patient room can hold one or more beds.
All the system devices are connected to one another by means of a bus line which, depending on its functions, assumes the following name:

zone bus
connects the zone concentrators and equipment common to the entire system, such as, for example, interfaces

corridor bus
connects the electronic modules of the rooms and duty rooms, corridor lamps, signalling devices and the displays to the zone concentrator to which they belong

room bus
connects all the devices present in the room to the room electronic module.
The diagrams shown on pages 42 and 43 show the Clinos system structure in the two versions available.

Clinos can be configured to function in two different ways:
- **de-centralised system**, where the information is shown only in the duty unit and on the terminals belonging to the same zone (for example, a ward, a floor, a wing, etc.)
- **centralised system**, where the information is transmitted and shown on the duty unit and on the terminals of all the zones.

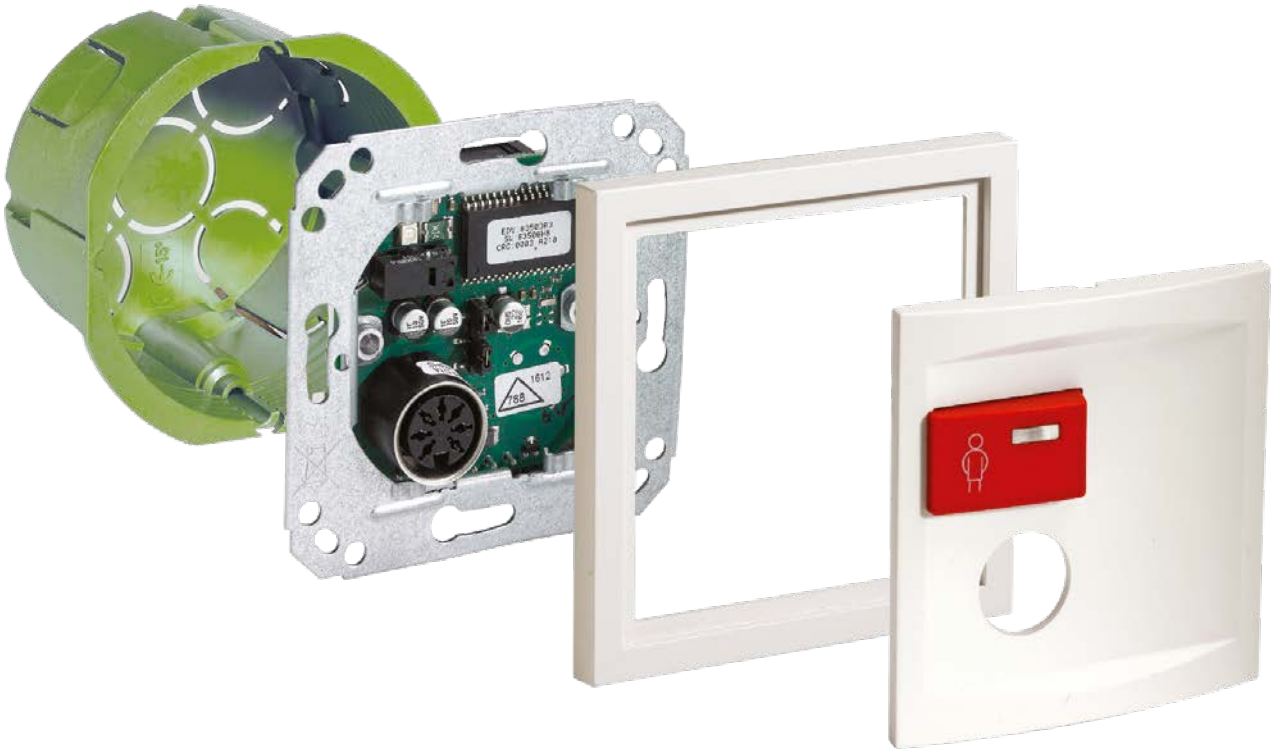
Thanks to the easy communication between the two methods of configuration of the system, provision can also be made to combine these to satisfy specific needs.
For example functioning may be de-centralised by day and centralised by night, when the staff presence is reduced, thereby optimising costs and maintaining the same quality of service.

The main component of the system is the zone concentrator, which controls and synchronises the entire bus line through which the data transit and ensures functions like the acoustic signals and intermittence of optic signals.
The calls can be differentiated into doctor calls, nurse calls, emergency calls, reminder calls and telephone calls. Each zone concentrator can manage up to 6 different sub-zones.

The zone concentrators are connected to zone buses to allow connection of other zone concentrators or system interfaces, and the corridor buses, which connect all the electronic modules and devices belonging to the zone controlled by each concentrator.
The active electronic modules, connected to the corridor bus provide the identification and the saving in memory of calls and allow connection of the active units present in the patient rooms or duty rooms.
The active units are represented by all those devices (displays, room terminals, call modules, communication modules, etc.) which, connected to the active electronic modules through the corridor bus, allow patients and service staff to make and manage the calls (identification of the origin, cancellation, etc.).
Each active unit is identified on the display by means of an 8-characters alphanumeric code.
The system also includes other devices having the function of making the patients' stay in the wards more comfortable (handsets, radio units, etc.).
The system units are powered with 24VDC safety voltage, supplied by feeders meant for the purpose.

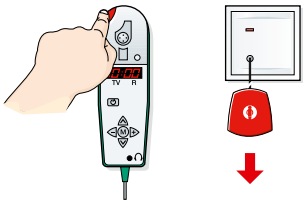
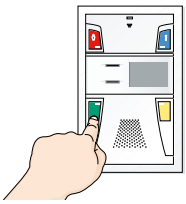
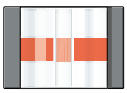
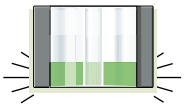
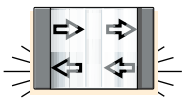
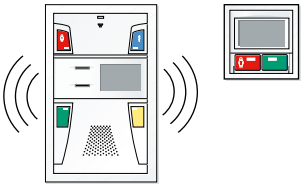
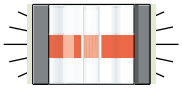
Components of the system

Method of composition of devices flush-mounted in the wall



Operating modes

How the system manages calls to service staff

When the patient makes a call		When the staff reach the room from which the call was made	
The reassurance LED of the call unit used lights up		Press the reset/presence button	
At the same time the call lamp lights up in red, or in the colour corresponding to the type of call made		The system cancels the call and relative signals (direction lamps, reassurance lamp and door light)	
In rooms where service staff are present, an acoustic signal is activated		The system activates the staff presence signal in the room (corridor lamp, green)	
The direction lamps light up in the corridor if present		The system gives acoustic signals for any other calls also in the room where the staff are now present, who can answer and display the calls	
The display present in the system displays the number of the room where the call was made	 	The system prepares to highlight as emergency call a further signal that may come from the room where the staff are present	

Emergency calls

Emergency calls have priority over normal calls, even if they were made subsequently, and are identified by intermittent optic and acoustic signals with appropriately high frequency, in addition to being shown on the display The same privileges are given to priority calls, i.e. "normal" calls which come from rooms with patients in particularly critical conditions.

The priority level associated with calls of a specific patient is changed by service staff, if required, by means of software.
Emergency calls can't be cancelled from other rooms.

Operating modes

Summary panel of the type of call and relative optic signal

Patients call	Type of identification	Type of signal
	DIN VDE 0834-1:2000-04	**optic**
normal call	nurse call (call)	steady red light
bathroom/WC call	WC call	white light and steady red light
priority call	-	flashing red light

Service staff call	Type of identification	Type of signal
	DIN VDE 0834-1:2000-04	**optic**
emergency call	emergency call	flashing red light steady green and/or yellow light
doctor call	alarm call	rapid flashing red, green, white light
bathroom/WC emergency call	-	flashing red light, steady white and green light

Other type of call	Type of identification	Type of signal
	DIN VDE 0834-1:2000-04	**optic**
diagnostic call	diagnostic call	flashing red light
reminder call	-	flashing green light
telephone call	telephone call	steady white light
isolation	isolation	steady red light

The different types of calls can also be identified acoustically, by means of different ring tones, which identify the following 3 categories:

- **Category 1:**
  includes normals calls and those from bathroom/WC
- **Category 2:**
  includes emergency calls, priority calls, diagnostic calls and emergency calls from bathroom/WC
- **Category 3:**
  includes alarm calls such as, for example, the doctor call

Reliability and safety

The Clinos system adopts a series of measures to ensure continuity of operation of the system and protection of people:

- in case of a power failure, the calls remain in memory for about an hour and, when the power supply is restored, the calls and the indications of presence active before the power failure are displayed automatically
- if the zone concentrator were to breakdown, the system switches to emergency mode, which guarantees the normal and emergency calls, call cancellation, presence indication, call transfer in rooms where the presence of service staff was signalled and the indicator light of the corridor lamp
- the zone concentrator constantly controls all the active units and signals any fault by means of a general message or specific messages
- some of the handsets are equipped with pull connectors, that avoid damage to the connection cable in case of accidental tugs
- the electrical safety and electromagnetic compatibility requirements of the system components are guaranteed in compliance with European Directives (EC marking)

Summary panel of the Clinos system functions

Functions	Clinos
Self-diagnosis	•
Possibility of changing the priority level associated with a specific call (for example, origin from the bed of a serious patient) via software	•
Detailed information on the priority level and origin of calls	•
Automatic disclosure of information in all the rooms with service staff present	•
Immediate localisation of service staff	•
Easily understandable information thanks to alphanumeric displays and video terminals	•
Identification of call with 8-characters alphanumeric code	•
Broadcasting	•
Full duplex two-way voice communication system	•
Room telephony	•
Bed telephony	•

Maximum dimensions of the system	Clinos
Number of concentrators	64
Total number of zones (zones controlled by each zone concentrator)	254 (6)
Number of devices on zone bus (including the data interfaces)	-
Number of data interfaces	-
Number of modules on corridor bus	127 (1)
Number of duty rooms on corridor bus	6
Number of duty rooms, by zone	1
Number of modules on room bus	10
Number of modules on room bus, by type	1 terminal with display 1 selection module 4 call modules with telephony 8 call modules without telephony
Number of modules in duty room, by type	1 compact unit

Maximum length of bus	Clinos
Zone bus (twin-core cable diameter 0.8 mm)	-
Bus between 2 zone concentrators, depending on cable used	50÷150 m
Corridor bus (twin-core cable diameter 0.8 mm)	500 m
Audio bus (twin-core cable diameter 0.8 mm)	500 m
Room bus (twin-core cable diameter 0.6 mm)	200 m

Notes:
(1) the total of active modules, between corridor modules and room modules, must not exceed 255
(2) for each zone concentrator there must be at least one duty room

QSO Switchgears and appliances for rooms destined for medical use

Express its full potential

Complete integrated solutions for hospital settings:
A state-of-the-art system.

Clinos is an important technical innovation which, thanks to the solutions adopted, makes it possible to complete and rationalise an extremely important function for this type of setting: the exchange of information and communication between patients and healthcare staff.

H+Line is a large range of reliable products for ensuring the safety of patients and medical staff in intensive care units, operating theatres, A&E, in outpatient clinics, day hospital premises, nursing homes, dentists' surgeries and veterinary surgeries.

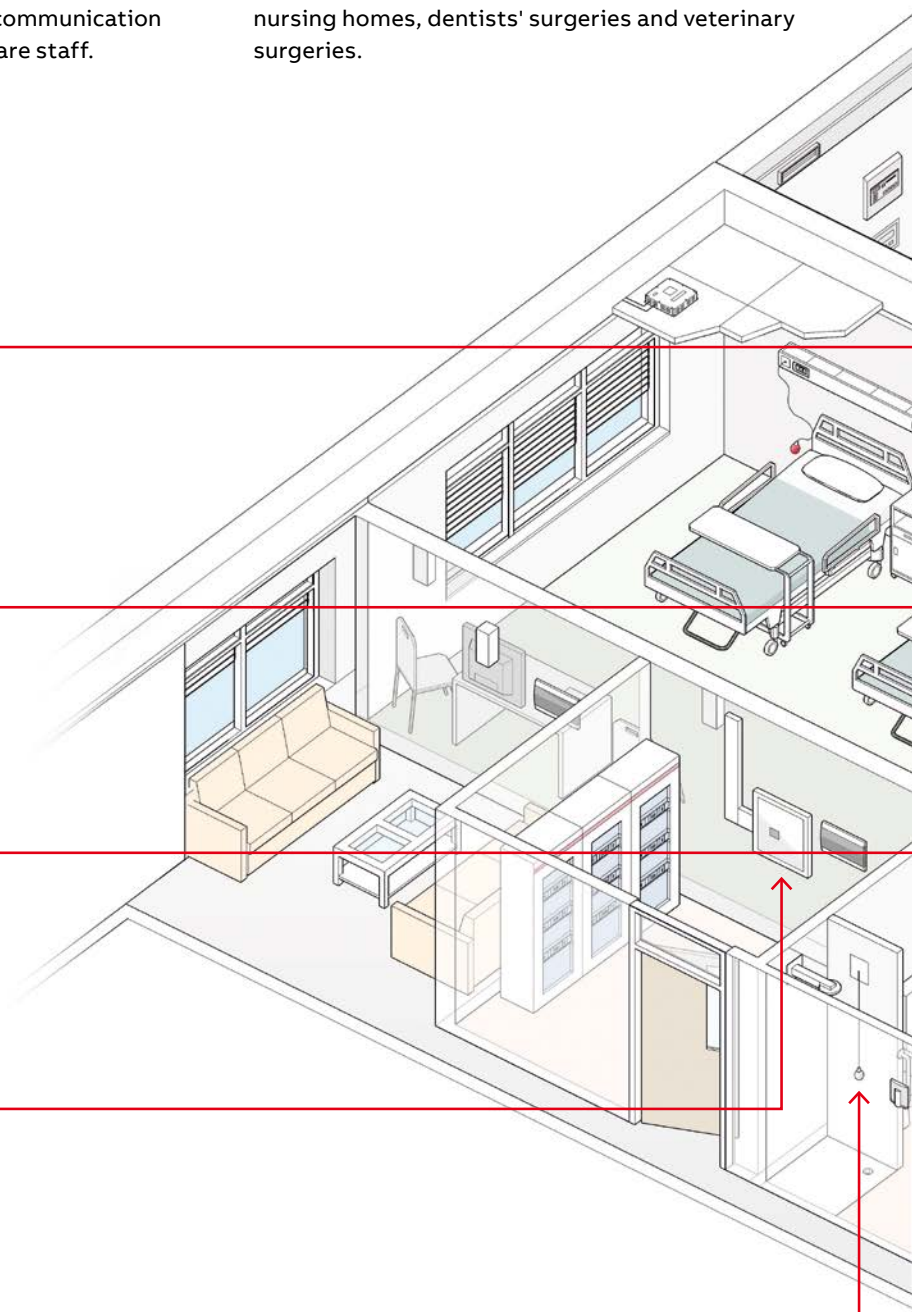
QSD-DIG 230/24 Remote signalling panel

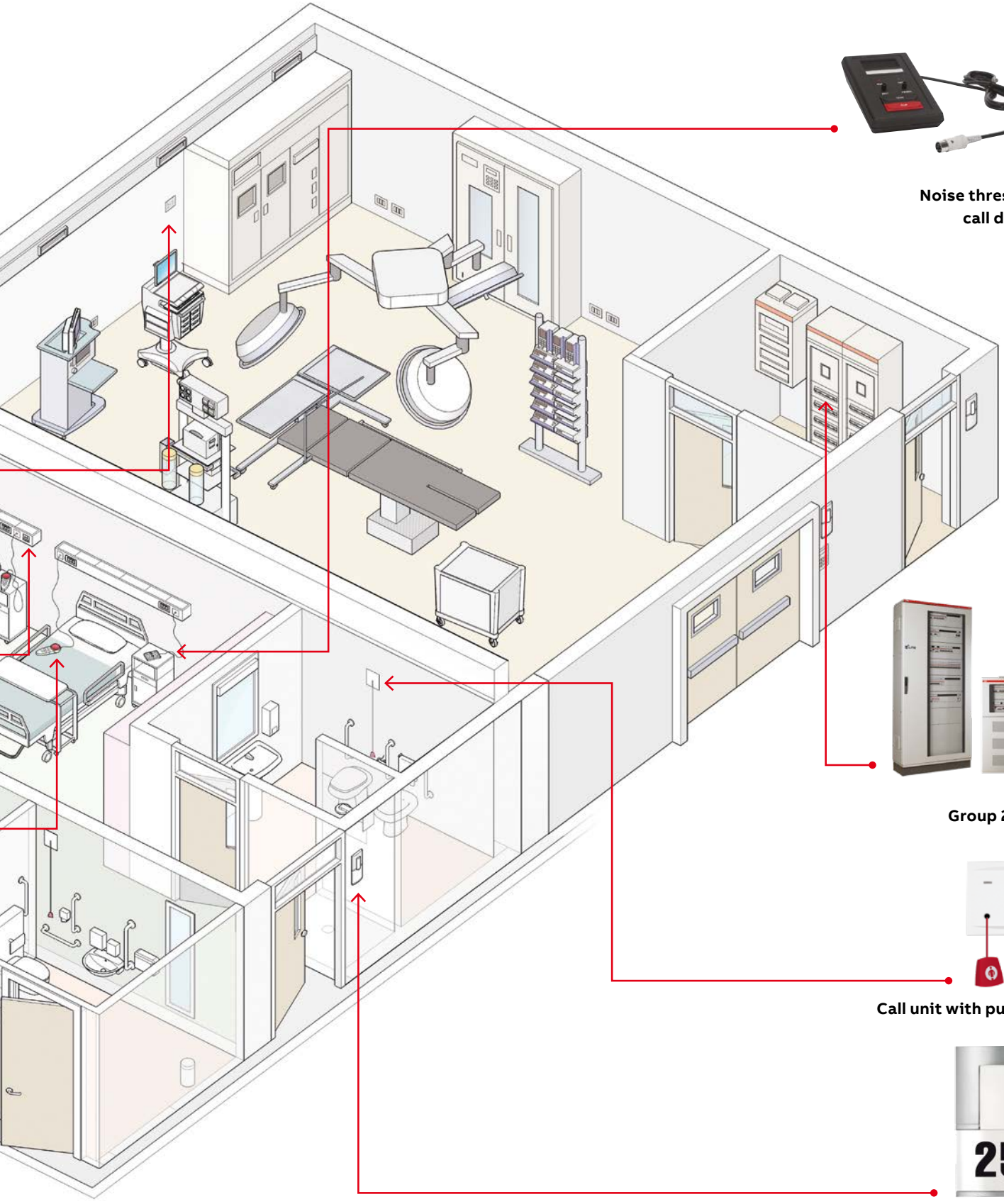
Bedhead

Handset IP67

Zone concentrator

Pneumatic control button





Noise threshold call device

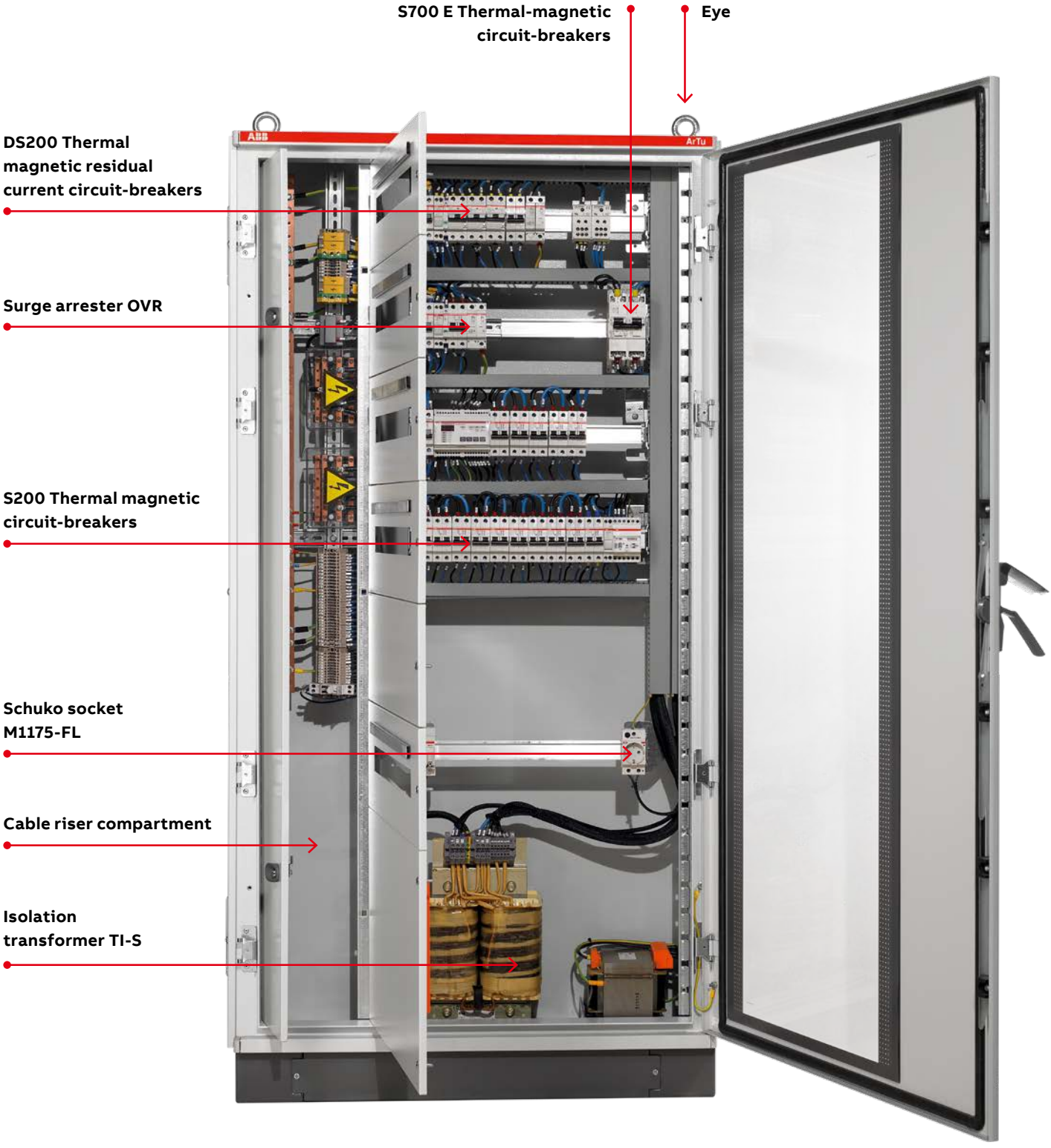
Group 2 unit

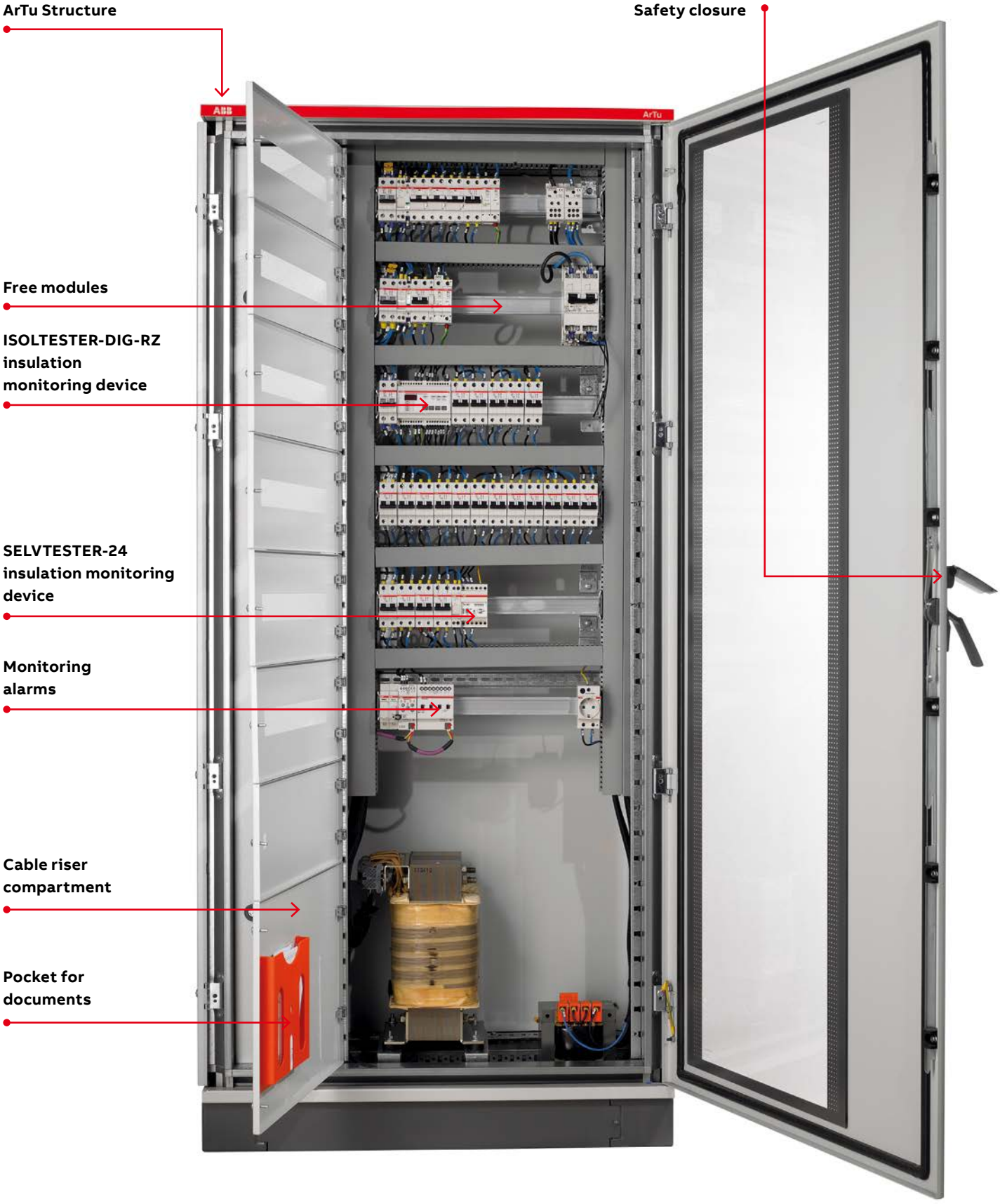
Call unit with pull rod

Corridor lamp with name-plate module

QSO distribution boards
Equipment for rooms destined for medical use

The new QSO distribution boards for the operating theatre are the ideal solution for power supply of operating theatres and group two rooms for medical use, pursuant to standard CEI 64-8/7-710. All the panels are wired by ABB and are accompanied by the declaration of conformity necessary for commissioning of the system, ensuring the installer total compliance in the realisation of the system.
Compact dimensions, total selectivity in protection and maximum ergonomics and simplicity of maintenance operations, make the QSO range the product most suitable to guarantee continuity of service of rooms for medical use.


S700 E Thermal-magnetic circuit-breakers
Eye
DS200 Thermal magnetic residual current circuit-breakers
Surge arrester OVR
S200 Thermal magnetic circuit-breakers
Schuko socket M1175-FL
Cable riser compartment
Isolation transformer TI-S


ArTu Structure
Safety closure
Free modules
ISOLTESTER-DIG-RZ insulation monitoring device
SELVTESTER-24 insulation monitoring device
Monitoring alarms
Cable riser compartment
Pocket for documents
ABB
ArTu

ISOLTESTER-DIG medical insulation monitoring device for 230 VAC supplies

- Reliability: safe monitoring in any operating condition, thanks to the coded signal
- Integration: capacity for interacting with the monitoring systems using the ModbusRTU protocol, thanks to the RS485 serial port
- Analysis: each fault can be assessed thanks to the measurement of maximum and minimum values
- Flexibility: alarms that can be transferred to as many as 4 rooms attended by medical and healthcare staff, by means of remote signalling panels
- Control: management of every alarm condition detected, thanks to the programmable relay

SELVTESTER-24 medical insulation monitoring device for scialytic lamps

- Flexibility: programmable alarm threshold
- Intelligence: recognition of faulty pole in direct current
- Compactness: dimensions contained in just 3 modules
- Practicality: extremely simple installation and use
- Integration: ideal complement of ISOLTESTER-DIG

QSD-DIG 230/24 Remote signalling panel

- Compactness: reduced dimensions
- Easy installation: assembly in an E503 type universal flush-mounting box consisting of 3 modules
- Reliability: immediate recognition of the type of fault
- Comfort: simultaneous silencing of several signalling panels
- Operating efficiency: acoustic and light signal

Isolation transformer TI

- Specialisation: specially developed for medical use
- Compactness: the overall dimensions of the isolation transformers installed in the ABB QSO switchboards are the smallest on the market
- Quality: isolation of the windings, realised by means of the exclusive vacuum/pressure technology, guarantees maximum thermal dissipation
- Accessories available: versions with PT100 probes for all capacities

Consult the brochure 2CSC004033B0902 for more information

Clinos

Clinos Nurse call system
Structure of the system

The Clinos nurse call system consists of a nurse call system with active users in the network and interactive data exchange, based on the multi Bus architecture. This characteristic feature, together with the advantages offered by the modularity of the system, allow easy and quick installation of the individual components of the system.

The zone control units control the data and the voice communication between the individual active modules of the zone Bus, corridor, bed and audio lines. These process the incoming calls and distribute the information regarding the calls and presences in addition to other data relative to the system (e.g. faults) to the relative recipient modules.

Systems equipped with zone control units, up to a maximum of 64, connected by means of the zone data Bus line, can be installed. Each zone control unit therefore supports the control of 6 logic sub-groups. There may be a maximum of 250 logic groups (nursing areas) per system.

A maximum of 127 users across the network can be connected to each zone control unit via the corridor bus line. The users may be room terminals, electronic modules, interface devices, information displays and direction lamps. Each zone control unit can administer a total of 255 users across the network; the active devices connected to the bed data Bus line of the room terminal and the electronic module can be included as extension of the devices present on the corridor Bus line. These are the display module, call module and bed modules.

A network address is assigned to each user across the network; an identification consisting of 8 characters is assigned to the electronic modules and call modules, room terminals, interfaces of the duty rooms and the interface devices. The cables for the transmission of data of the corridor data bus line and bed must be laid as if they are “cables for Bus lines”. The wiring technology of the Buses differs from the normal wiring technology since the use of a single twin-core cable and one at the output is allowed for each active module. It is necessary to make a note of the polarity of the respective twin-core cables and of the terminals of the corridor bus and audio Bus lines.

The zone data Bus line is structured like a loop Bus with POF duplex cable (max. 50 m between 2 users). As alternative a POF fibre can be used (max. 150 m).

A conductor with suitable cross-section must be provided for the electric power supply wiring, taking into consideration the length of the cable and the number of modules connected.

The maximum length of the corridor Bus line cable, using a twisted twin-core cable, is 800 m.
The maximum length of the bed data bus line, using a twisted twin-core cable, is 200 m.
For systems which provide two-way communication, a twisted twin-core cable is necessary for the audio Bus line (max. 800 m) in addition to cables for data transmission in the corridor data Bus line.
The programming is also done in the system via the audio Bus.

Clinos Nurse call system
Description of the components

The zone control unit acts as the central control unit and carries out monitoring and synchronisation of all the data traffic and, at the same time, constitutes a high level connection with other zone control units.

The intermittence speed of the corridor and zone indicator lights, in addition to the call sound signal, are controlled by means of the zone control unit. The doctor, emergency, normal, reminder and telephone calls are therefore represented in a different manner.

The complete control electronics, necessary for identification of the calls, is housed in the room terminal (room with voice communication) or in the electronic module (room without voice communication).
The connection base acts as the wiring distributor of the room. All configuration data are saved in memory in an EEPROM integrated in the relative device and are therefore protected also in the event of a voltage drop.

A duty room interface is used together with the operating station in duty rooms. All the functions of the duty rooms of a call system can be activated by means of the aforementioned combination of equipment: messages display, response to calls with presence, public announcements, selection of service tasks and functions.
In patient rooms with voice communication the room terminal acts as an easy to use operating unit. This unit supports the following functions: messages display, response to calls and response to calls with presence.

In patient rooms without voice communication electronic modules (with or without bed data Bus) are used to which active and passive devices of the bed data Bus are connected.

Several different operating elements can be installed in patient rooms. The choice of the most suitable device is made on the basis of the function required.

The passive service devices at the bed in each room include components such as call buttons (also with plug contact) and mobile devices such as pear push-buttons and multiple push-buttons. Call buttons or pneumatic buttons are provided in the bathroom/WC areas. For example, push-buttons for cancelling from bathroom or call and cancelling push-buttons are used at the entrance to the rooms (without voice communication).

In rooms with“luxury settings”, additional active devices such as display and call modules can be installed in the patient's room. If voice communication with the bed is found to be necessary, the bed combination must be installed (microphone, speaker, call module).

Note:
Zone control units, room terminals and electronic modules can be surface-mounted.
Room terminals and electronic modules are equipped with call circuits for doctor, diagnostics, bathroom/WC and room calls.
All the inputs regarding the calls are wired as NC and support the “call circuit monitoring” function.
Moreover, these devices are provided with "green" presence cancel circuits (optional: yellow") and bathroom/WC cancel.

Note:
The call buttons, call keys and the active devices such as the display and call modules are used with the help of flush-mounting moulded cases.
If the components provided with plug such as pear push-buttons and multiple push-buttons are connected to a socket provided for the purpose, a test call must be made to check the general call functions.

Clinos Nurse call system
Joining - Safety

Joining
Several systems must be interconnected in hospitals, such as for e.g. building control, fire alarm and heating systems, or less recent nurse call systems. The nurse call system includes various interface devices in order to make this integration simpler.

Information relative to the calls can be sent to a connected pager system via the pager interface device present on the server.

This allows display of the various messages on the pagers of nursing and technical staff.

The PC connected via Ethernet makes it possible to transmit all the system data generated in the Clinos nurse call system. This guarantees, for example, the possibility of providing a simplified analysis of the information regarding calls and presences.

Moreover, the internal messages such as technical alarms can be sent by means of interface devices.

Adequate transfer protocols are available for joining different systems.
This makes it possible to guarantee the compatibility of the individual systems.

Safety
In case of power failure, all the information on calls and presences are saved temporarily until, after a maximum of 15 seconds, a substitute power supply is provided (for example, a UPS). This makes it possible to process all the messages. When the power supply is restored the calls and the presences active before the power failure are displayed.

The zone control unit monitors all the active devices.
Errors are signalled as general announcements via an error message contact, on the basis of which suitable measures must be activated. The outputs of the electronic module lamps are protected against short circuit. All the electronic modules are equipped with automatic reset fuses, capable of protecting not only the electronic module, but also the devices installed in the room.

All the inputs relative to the calls of the electronic modules, of the interface devices and of the call devices support the “monitoring the call circuit” function.
This ensures the monitoring of the circuit of the calls and of the equipment connected to these from the outside (calls function, faults, etc.).

In case of a fault in the zone control unit the part concerned will work in “emergency mode”. This includes the transmission of normal calls and emergency calls, cancelling the calls and detection of presences, as well as transmission of acoustic signal in case a presence is detected. The visual indication consisting of the corridor indicator lamps also remains in operation.

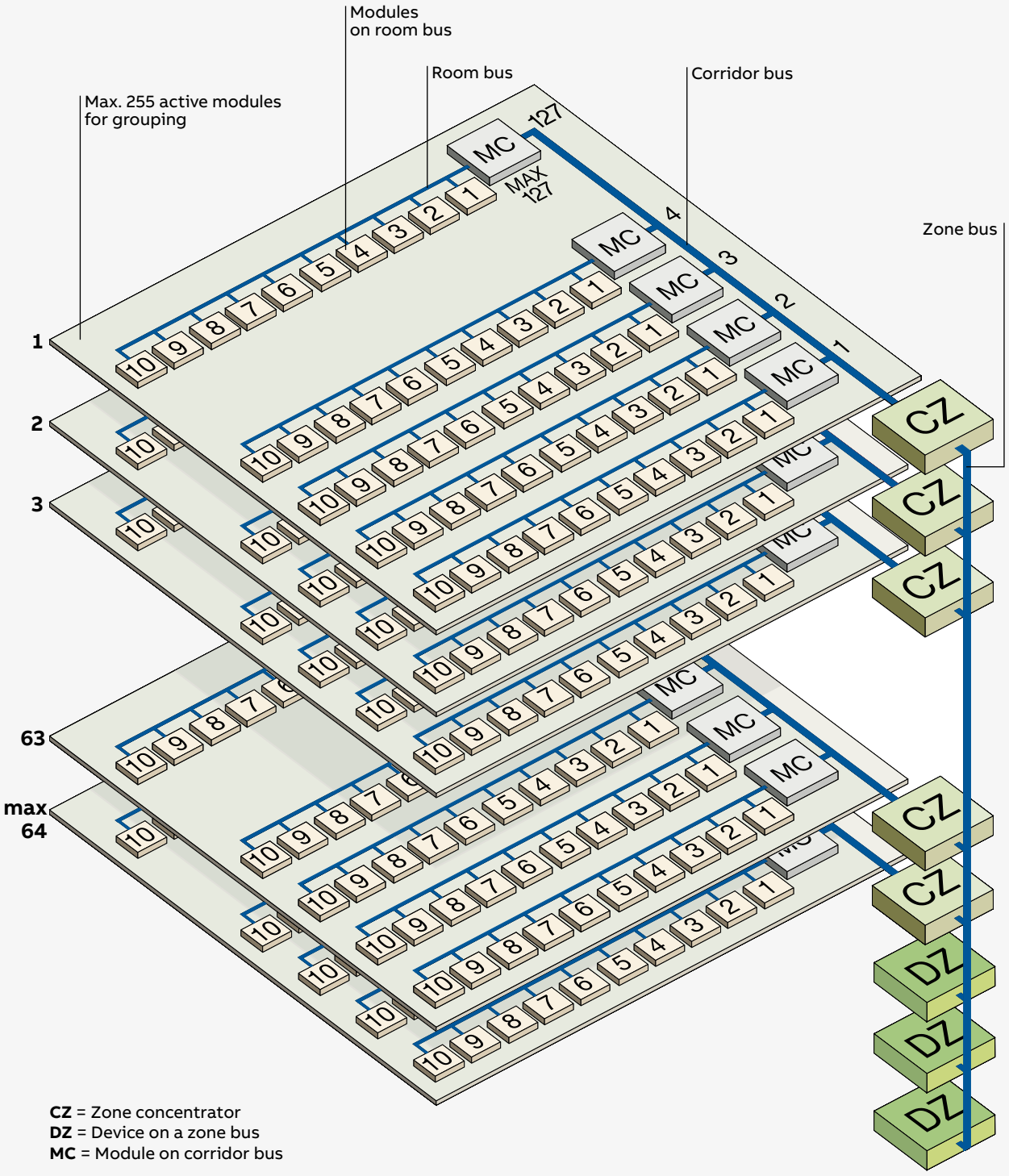
Any defective components can be exchanged without problems. The system data are again assigned by means of the configuration module.

This changeover of components of the system must be done by expert personnel, also considering the presence of any electrostatic discharges (ESD).

Electrical safety is guaranteed by the application of appropriate Standards. All the components of the equipment concerned satisfy the EMC 89/336/CEE Guidelines and bear the CE marking, usually applied on the equipment itself, or otherwise on the accompanying documentation and/or on the packing.

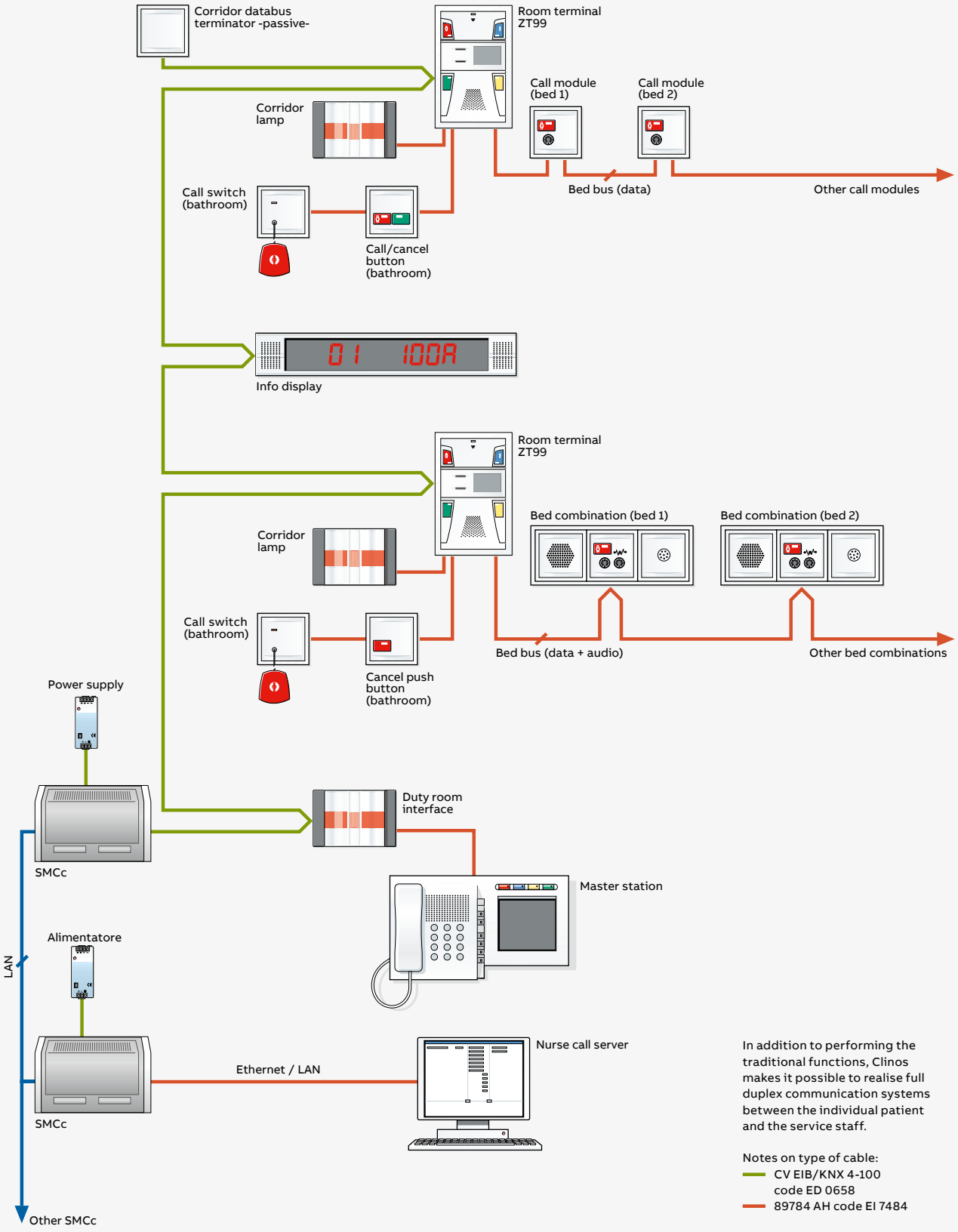
Examples of application of the system

Zone grouping diagram



Examples of application of the system

Call system diagram

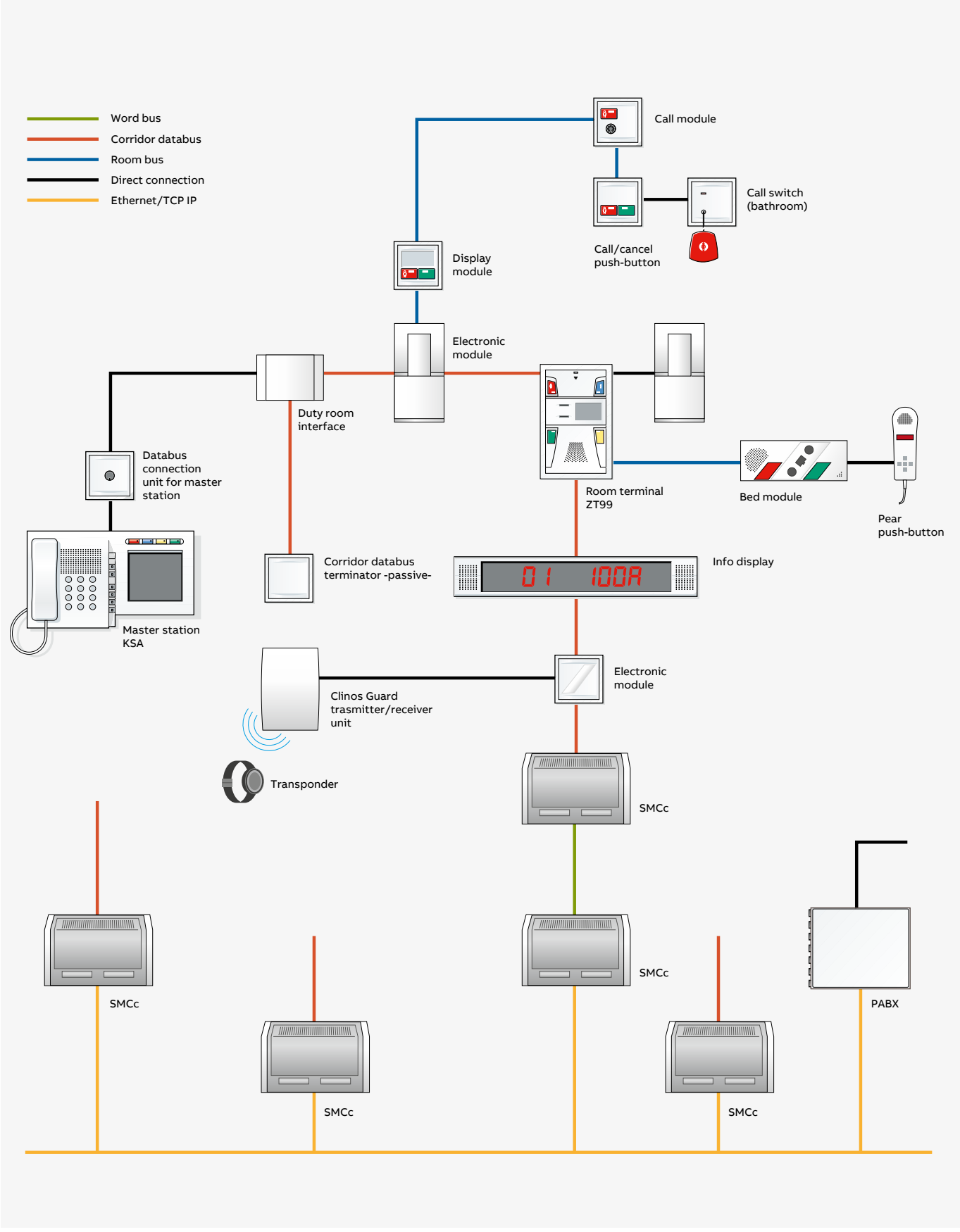


In addition to performing the traditional functions, Clinos makes it possible to realise full duplex communication systems between the individual patient and the service staff.

Notes on type of cable:
- CV EIB/KNX 4-100 code ED 0658
- 89784 AH code EI 7484

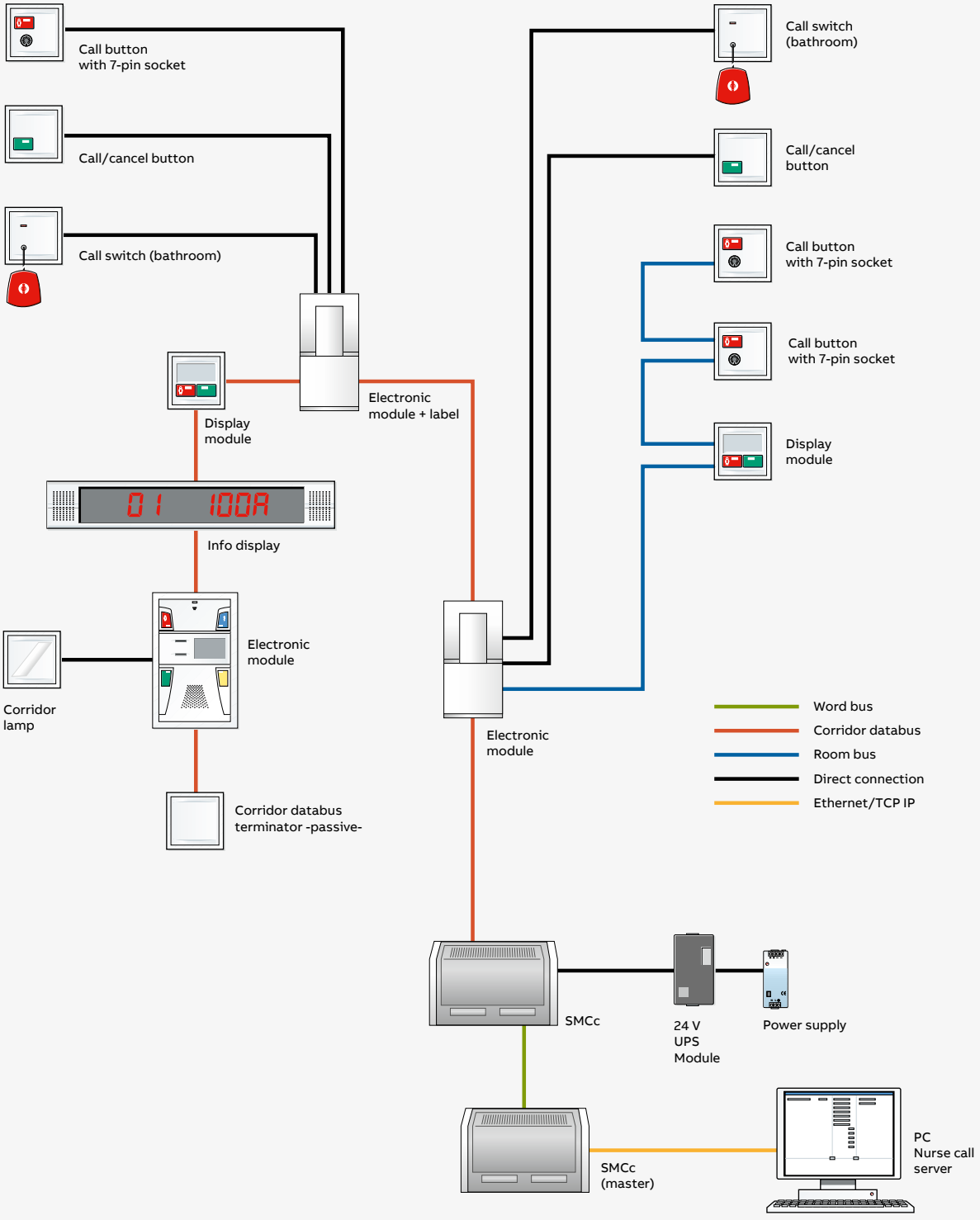
Examples of application of the system

Overview of the Clinos system



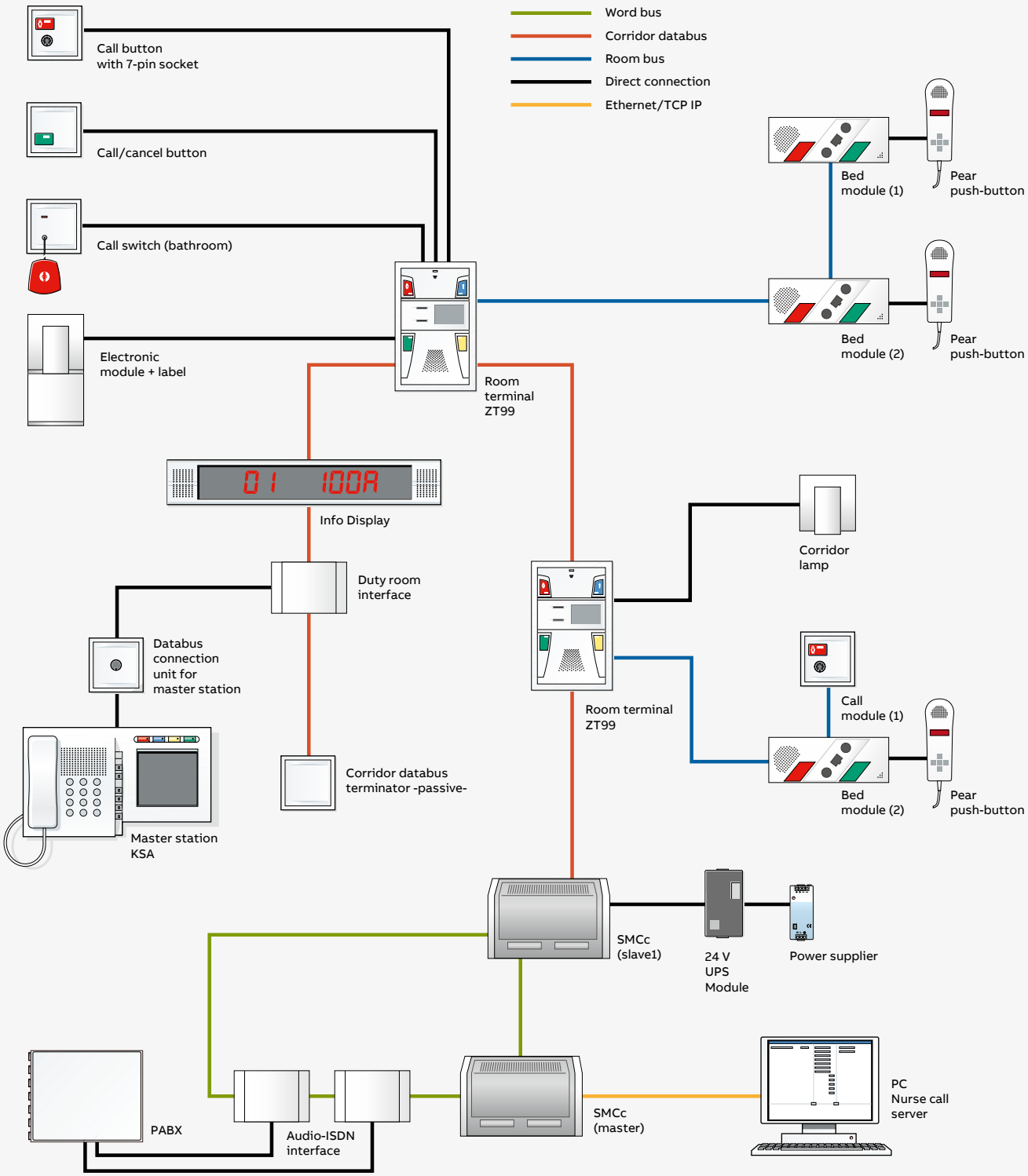
Examples of application of the system

Overview of the Clinos system without voice function in bedhead strip



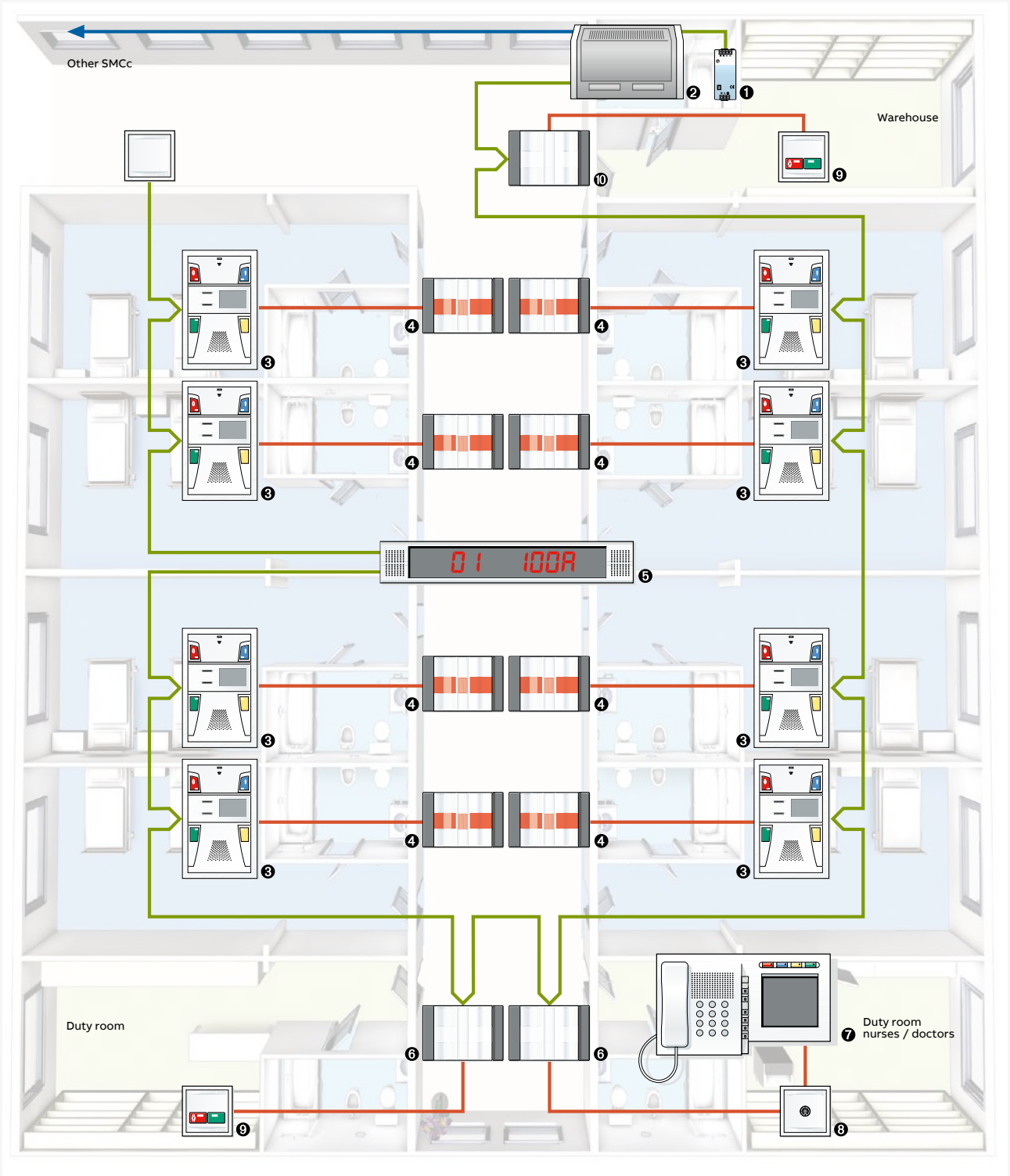
Examples of application of the system

Overview of the Clinos system with discreet voice function

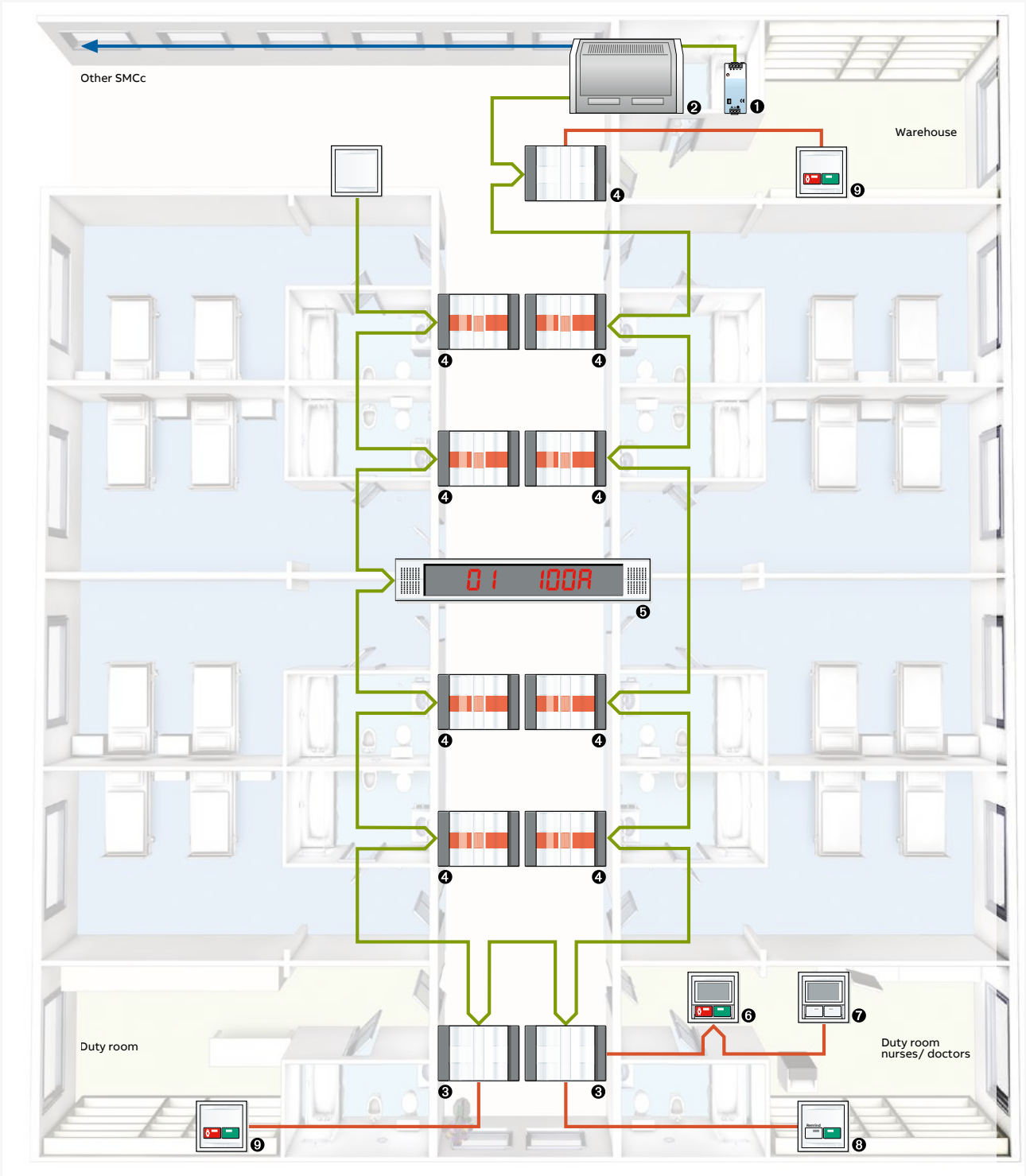


Examples of application of the system

Diagram of hospital ward



1. Electronic module for stabilised room Feeder
2. Zone concentrator
3. Room terminal
4. Corridor lamp
5. Information display
6. Electronic module for duty rooms
7. KSA Compact unit
8. Connection unit
9. Call and cancellation combination
10. Electronic module for room



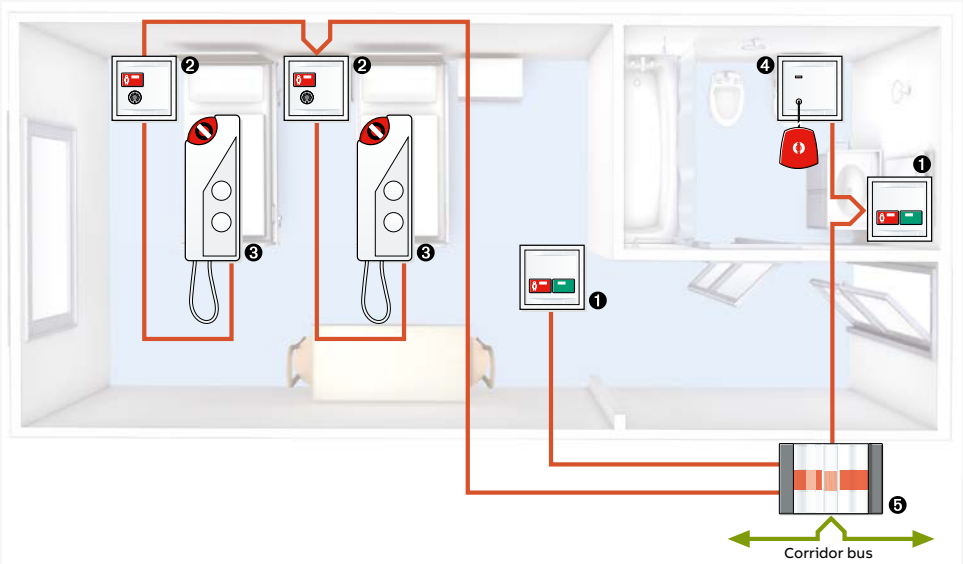
1. Stabilised Feeder
2. Zone concentrator
3. Electronic module for duty rooms
4. Electronic module for room
5. Information display
6. Alphanumeric modular display
7. Duty room selection module
8. Unit for duty room
9. Combination of call and cancellation

Examples of application of the system

Layouts of patient rooms without telephony

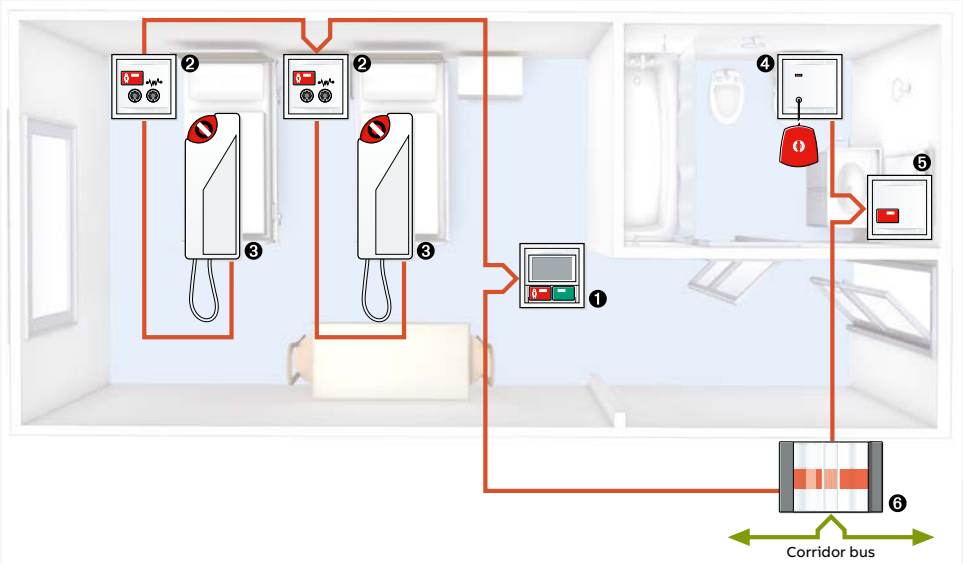
Patient room Basic

1. Combination of call and cancellation
2. Call module
3. Handset
4. Call unit with pull rod
5. Electronic control module for room



Patient room With display

1. Alphanumeric modular display
2. Call module included for diagnostic device
3. Handset
4. Call unit with pull cord
5. Call button
6. Electronic control module for room

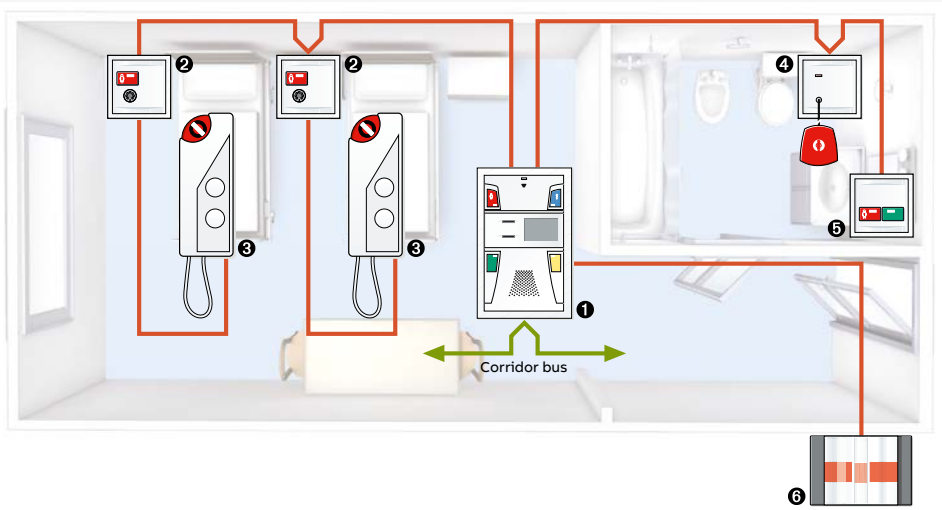


Examples of application of the system

Layouts of patient rooms without telephony

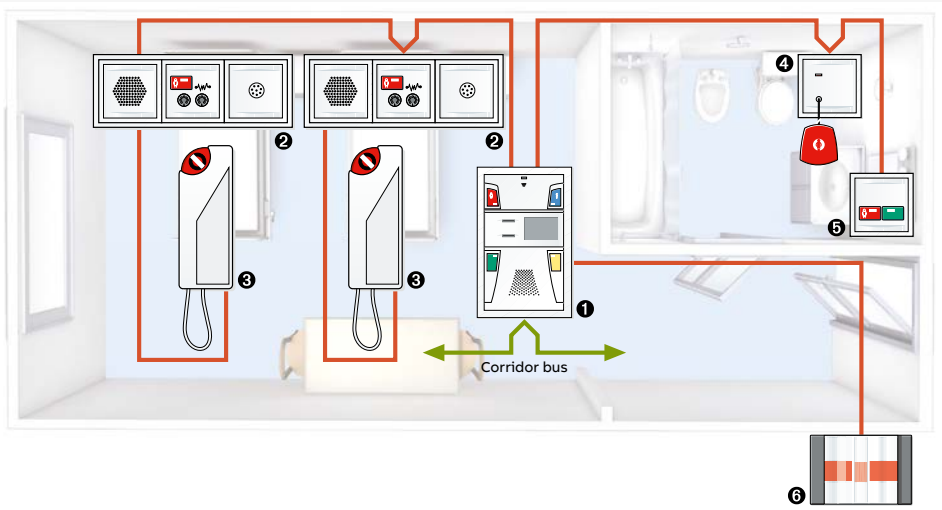
Basic version of patient room

1. Room terminal
2. Call module
3. Handset
4. Call unit with pull cord
5. Combination of call and cancellation
6. Corridor lamp



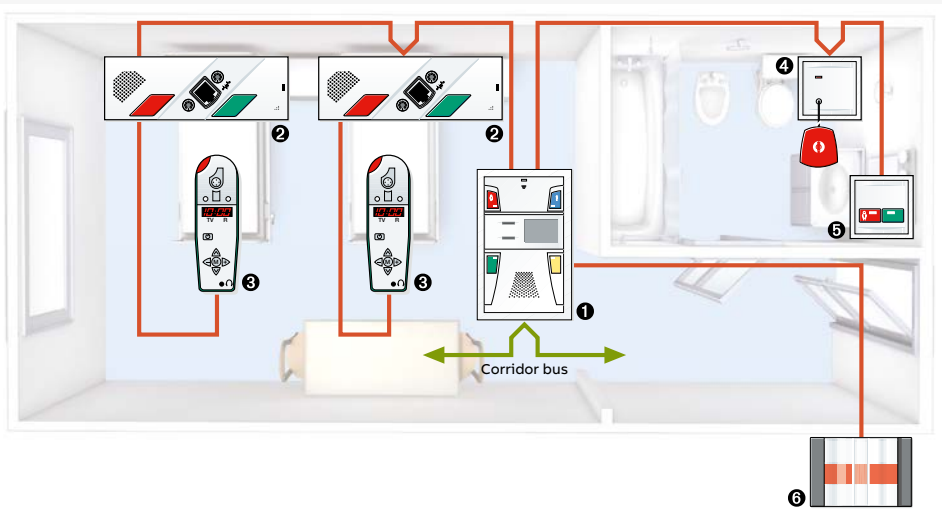
Intermediate version of patient room

1. Room terminal
2. Combination for bed
3. Handset
4. Call unit with pull cord
5. Combination of call and cancellation
6. Corridor lamp



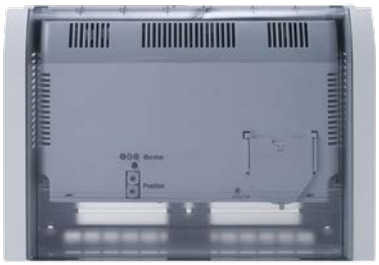
Advanced version of patient room

1. Room terminal
2. Electronic module for handset/ microtelephone
3. Handset
4. Call unit with pull cord
5. Combination of call and cancellation
6. Corridor lamp



Clinos Nurse call system

Technical rooms



Zone concentrator SMCc

Clinos zone concentrator, accessories kit

The SMCc zone concentrator with surface-mounting is designed as a control unit for an organisational unit, such as a ward or a living area. It is a modular zone concentrator with two slots for the optional field bus cards (FBC). The zone concentrator (SMCc) monitors and synchronises all data traffic and intercom connections (conversations, announcements) within the organizational unit and coordinates communication with other central control units via IP communication (zone data bus or ETH-LAN). In addition, it controls display screens and acoustic call messages in accordance with stipulated priorities/service (zone linking) within a system. It offers flexible configuration options depending on customer requirements, via the server (PC) with a practical Windows graphic user interface. A maximum of 64 zone concentrators and up to 250 logical groups (sub-groups) can be installed. Networking is implemented via the ETH-LAN IP interface (data/audio) and the optional zone data bus POF (data/audio). It supports the compatibility mode for existing system installations with the 72660x zone controllers; a firmware update of the basic systems installed may be required. A master control unit (in the case of Ethernet: without corridor data Bus) is configured to communicate with the server upstream via the ETH and to control the escalation of all system alerts within the entire system There is provision for future firmware updates subject to license and equipped with SD card slots to enable the use of new services.
The installation of the zone concentrator (SMCc) can be centralised or de-centralised (surface mount design) in environmental category I.

Characteristics

- Operation as a master/slave zone concentrator, depending on address assignment/ configuration
- Communication (data/audio) with additional control units via ETH-LAN and the SBUS zone data bus (max. 64)

Assistance functions:

- Software download for system components (if possible), firmware update, remote maintenance/SNMP function (with PC), commissioning the base unit
- SD card slot for future firmware or license updates
- Connection board for surface mounting
- Centralised and de-centralised installation

Safety features:

- Data reception in case of network failure in compliance with DIN VDE 0834 (UPS required)
- Option of redundant power supply via secondary feed-in
- Local emergency operation if the system master control unit fails
- Sequential monitoring of the active components connected, additional control units in the entire system and PC communication pursuant to DIN VDE 0834
- 2 relay contacts to signal faults (NOC/NCC), (1 x in compatibility mode zone controller 72660x)
- Galvanic Electrical isolation from other control units by means of ETH-LAN or POF connection
- Status display via LEDs
- Flash memory for storing the system's data
- Max. number of control units: 64
- Max number of (logical) groups: 250 (per system)

Description	Code	Type
Zone concentrator SMCc	72700A1	CLSD0001

Technical data	
Operating Voltage	24 V/DC +/-10 %
Quiescent current	@ 24 V DC approx. 180 mA
Contact load relay	1A/30 V DC
Ambient temperature	5 °C ... 40 °C
Storage temperature	0 °C ... 60 °C
Assembly	surface mounting
Air humidity	20 85 % (non condensing)
Material	PC+ABS-FR/PC
Colour	grey, similar to RAL 7035
Weight approx.	1.1 kg (incl. plug-in cards)
Dimensions	L: 278 mm H: 192 mm D: 60 mm

Accessories

Description	Code	Type
Card (FBC)	72700C1	CLSD0003
Card (FBC) Phon 95	72700D1	CLSD0004
Card (FBC) POF	72700E1	CLSD0007
2 A - 24 V DC power supply, in accordance with EN 60601-1-1	72700Z1	CLSD0008

—

SMCc zone concentrator for rack assembly

Clinos zone concentrator, accessories kit

The Clinos zone concentrator (SMC) is designed for mounting in a system rack or in connection with the 19” front panel to be installed in a distribution cabinet.
It is designed as a control unit for an organizational unit such as a ward or living area.
It is a modular central control unit with two slots for the optional field bus cards (FBC).
The zone concentrator (SMCc) monitors and synchronises all data traffic and intercom connections (conversations, announcements) within the organizational unit and coordinates communication with other central control units via IP communication (zone data bus or ETH-LAN). In addition, it controls display screens and acoustic call messages in accordance with stipulated priorities/service (zone linking) within a system. It offers flexible configuration options depending on customer requirements, via the server (PC) with a practical Windows graphic user interface. A maximum of 64 zone concentrators and up to 250 logical groups (sub-groups) can be installed.
Networking is implemented via the ETH-LAN IP interface (data/audio) and the optional zone data bus POF (data/audio). It supports the compatibility mode for existing system installations with the 72660x zone controllers; a firmware update of the basic systems installed may be required. A master control unit (in the case of Ethernet: without corridor data Bus) is configured to communicate with the server upstream via the ETH and to control the escalation of all system alerts within the entire system. The installation of the zone concentrator (SMC) can be centralised or de-centralised (surface mounting design) in environmental category I.

Characteristics

- Operation as a master/slave zone concentrator, depending on address assignment/ configuration
- Communication (data/audio) with additional control units via ETH-LAN and the SBUS zone data bus (max. 64)

Assistance functions:

- Software download for system components (if possible), firmware update, remote maintenance/SNMP function (with PC), commissioning the base unit
- SD card slot for future firmware or license updates
- Front panel for mounting in the system rack
- Centralised and de-centralised installation

Safety features:

- Data reception in case of network failure in compliance with DIN VDE 0834 (UPS required)
- Option of redundant power supply via secondary feed-in
- Local emergency operation if the system master control unit fails
- Sequential monitoring of the active components connected, additional control units in the entire system and PC communication conforming to DIN VDE 0834
- 2 relay contacts to signal faults (NOC/NCC), (1 x in compatibility mode zone controller 72660x)
- Galvanic Electrical isolation from other control units by means of ETH-LAN or POF connection
- Status display via LEDs
- Flash memory for storing the system's data
- Max. number of control units 64
- Max number of (logical) groups: 250 (per system)

Description	Code	Type
SMCc zone concentrator for rack assembly	72700B1	CLSD0002

Technical data	
Operating Voltage	24 V/DC +/-10 %
Quiescent current	@ 24 V DC approx. 180 mA
Contact load relay	1A / 30 V DC
Ambient temperature	5 °C ... 40 °C
Storage temperature	0 °C ... 60 °C
Assembly	in 19“ rack unit
Air humidity	20 85 % (non condensing)
Material	PC+ABS-FR/PC (front panel: aluminium)
Colour	grey, similar to RAL 7035
Weight	approx. 900 g (incl. plug-in cards)
Dimensions	L: 262 mm H: 154 mm D: 61 mm

Accessories

Description	Code	Type
Field Bus Card (FBC)	72700C1	CLSD0003
Field Bus Card (FBC) Phon 95	72700D1	CLSD0004
Field Bus Card (FBC) SBUS-SBUS	72700E1	CLSD0007
2 A - 24 V DC power supply, conforming to EN 60601-1-1	72700Z1	CLSD0008
19” system rack for 7 zone concentrator SMCc 72700B1	72700Z2	CLSD0005
19” front panel for 1 zone concentrator SMCc 72700B1	72700Z3	CLSD0006

FBC card

Field bus card (FBC)
System 99
accessories kit (clamps)

Plug-in board for zone concentrator (SMCc) for the Clinos system. Manages a maximum of 127 active system components in the corridor data bus such as room terminals, electronic modules, information displays and other devices. The corridor data bus of a FBC can be segmented into up to six sub-groups. There is an option to provide a redundant power supply to the SMCc zone concentrator via a decentralised power supply installed in the ward or living area. There is an option to include a bus terminator to terminate the corridor data bus (data/audio).
An additional repeater (data/audio) is required after 64 active system components.
There is an option for updating the firmware of the active system components (provided it is supported by the units). There is provision for future functionalities of the device subject to license to enable the use of new services.

Characteristics

- Plug-in board for Clinos concentrator
- Connection terminals for the corridor data bus (data/audio)
- Connection terminals for the power supply
- Service socket for the configuration module (KFM)
- Communication interface to the active system components in the corridor data bus (data/audio)
- Length of corridor data bus: 400 m (data/audio), max. 2500 m (with repeaters)
- Corridor data bus repeater: max. four items (for data/audio respectively)
- Number of active modules on corridor data bus: 127 (repeater required after 64)
- Number of corridor data bus plus bed bus modules: 255

Description	Code	Type
FBC card	72700C1	CLSD0003

Technical data	
Mounting plug-in board for the Clinos Phon concentrator	
Weight	approx. 150 g (incl. accessories kit)
Dimensions	L: 106 mm H: 57 mm D: 12 mm (PCB)

Phon FBC 95 Card

Phon 95 FBC Card accessories kit (clamps)

Plug-in board for the zone concentrator (SMCc) for the Clinos Phon 95 system. To manage a maximum of 50 active system components in the data bus such as room terminals, electronic room modules, interface units and other units. The data bus of a field bus card can be segmented into up to six sub-groups. There is an option to provide redundant power supply to the zone concentrator via a de-centralised power supply installed in the ward or living area. An additional data amplifier is required (data/audio) after 400 m. There is provision for future functions of the device subject to license to enable the use of new services. Compatibility checks must be conducted on existing system installations.

Characteristics

- Plug-in board for Clinos Phon 95 concentrator
- Connection terminals for data bus (data/audio)
- Connection terminals for the power supply
- Communication interface to the active system components in the data bus (data/audio)
- Length of data bus: 400 m (data/audio), implemented as a loop or spur
- Data amplifiers: max. 2 items (for data/audio respectively)
- Number of corridor data bus users:
  40 (operating mode VDE 0834:2000-04)
  50 (operating mode VDE 0834:1993)

Description	Code	Type
Phon 95 FBC Card	72700D1	CLSD0004

Technical data	
Mounting plug-in board for the Clinos concentrator	
Weight	approx. 150 g (incl. accessories kit)
Dimensions	L: 106 mm H: 57 mm D: 12 mm (PCB)

FBC POF-POF Board

Field bus card
(FBC) POF POF,
accessories kit (clamps)

Plug-in board for the Clinos zone concentrator (SMC) upstream as a communication interface to other active system components in the zone data bus such as zone control units, Clinos zone concentrators and additional units. The zone data bus of a field bus card is set up as a double loop circuit with an incoming and outgoing loop (SL/SR). Varying distances can be bridged, depending on the type of cable used. Automatic monitoring of the cabling in accordance with DIN VDE 0834 provides an option for a redundant power supply to the Clinos zone concentrator via a decentralized power supply installed in the ward or living area. Compatibility checks must be conducted when extending existing system installations.

Characteristics

- Plug-in board for Clinos concentrator
- Connection sockets for zone data bus SL, SR (data/audio)
- Connection terminals for the power supply
- Communication interface to the active system components in the zone data bus (data/audio)
- Length of zone data bus:
  50 m with SBUS fibres, 150 m (HCS fibres), 1 km (OF fibres 50/125 µ)
- Number of users of the zone data bus: 75

Description	Code	Type
FBC POF-POF Board	72700E1	CLSD0007

Technical data	
Assembly	
Weight	approx. 150 g (incl. accessories kit)
Dimensions	L: 106 mm H: 57 mm D: 12 mm (PCB)

2 A - 24 V DC power supply, conforming to EN 60601-1-1

Single-phase power supply (2 A) for constant DC supply of the Clinos zone concentrator, fitted with a P1J plug. It is protected against short-circuits, overloads and power surges, with EN60601-1 approval for the healthcare sector B (e.g. intensive care).

Description	Code	Type
2 A - 24 V DC power supply, conforming to EN 60601-1-1	72700Z1	CLSD0008

Technical data	
Rated voltage	230 V AC
Rated frequency	47 ... 63 Hz,
Output voltage	24 V/DC + / -2 %
Output current	max. 2 A
Storage temperature	-20 °C ... 85 °C
Colour	black
Weight	approx. 550 g
Cable length	1.8 m
Specifications	EN 60601-1
Dimensions	L: 147 mm H: 76 mm D: 44 mm

Armature for mounting in 19” Rack for 7 SMCc

System rack for mounting a maximum of 7 zone concentrators (SMCc) in a 19" distribution cabinet.
Supplied as a kit.

Description	Code	Type
Armature for mounting in 19” Rack for 7 SMCc	72700Z2	CLSD0005

Technical data	
Assembly	19” distribution cabinet
Material	foil
Colour	grey
Weight	approx. 1.5 kg
Dimensions	L: 483 mm H: 268 mm D: 235 mm (6 HU)

19” front panel for SMCc

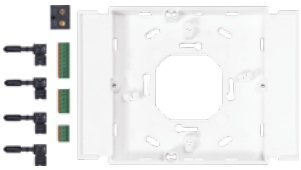
Front panel with handles for mounting the zone concentrator (SMC) in a 19" distribution cabinet.

Front panel assembly kit

Description	Code	Type
19” front panel for SMCc	72700Z3	CLSD0006

Technical data	
Assembly	19” distribution cabinet
Material	foil
Colour	grey, similar to RAL 7035 (powder painted)
Weight	approx. 300 g (incl. mountings kit)
Dimensions	L: 0 mm H: 0 mm D: 0 mm (w/o duct)
	L: 483 mm H: 88 mm D: 43 mm (incl. duct)

Base for ISDN interface

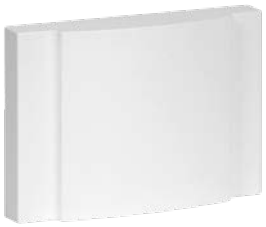


Connection board, set of connection terminals

Description	Code	Type
Base for ISDN interface	EI 446 5	72582Z1

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 152 mm H: 110 mm D: 20 mm

Audio ISDN interface



The audio ISDN interface allows audio communication between the Clinos system and a conventional telecommunications system with ISDN technology. During configuration up to 10 multiple subscriber numbers (MSN) can be assigned to the audio ISDN interface.

“Call Query” function mode

- Possibility to query system messages using mobile terminal devices (e.g. DECT, WLAN, GSM) via an ISDN connection to the telecommunications system
- In the case of incoming system messages (e.g. calls, emergency calls, alarm calls), the available callback numbers (from the MSN pool) are assigned dynamically according to the configuration of the zone concentrators. Optional connection software (item 83WE130 or 83WE140) is used to inform the receiver (e.g. DECT handset) of the callback number,which allows automatic connection by pushing a button when using the Clinos system.

“Call to phone” function mode

- Option for automatic or bed specific selective forwarding of system messages (e.g. calls, emergency calls, alarm calls) to an external telecommunications connection for further call handling.
- Transmission of the MSN phone number to the external telecommunications connection for identification of the call-triggering subscriber. Voice communication after call acceptance, e.g. via emergency assistance control centre or GSM cellular phone.
- Support for security options like minimum talk time and alternative escalation option.
- During configuration 1 participant (room) is assigned to a multiple subscriber number (MSN) of the audio ISDN interface. A maximum of 10 subscribers for each audio ISDN interface are possible.
- Call forwarding depending on the triggered call type and the active service/connection. This function requires that the telecommunications system and the network carrier support the CLIP function.
- Up to 8 units can be integrated in a system's zone data bus as central components.

Characteristics

Interfaces

- Zone data bus for digital data and audio transmission
- S0 interface for connection to the ISDN telecommunication network or a telecommunications system with Euro ISDN standard (DSS1)
- Service socket to connect analysis tools
- Assistance LEDs for rapid fault analysis

Mounting

- The module is plugged into the accompanying connection board with a quick-release fastener. The unit is suitable for surface mounting in a moulded case.

Description	Code	Type
ISDN audio interface	EI 668 4	72581B1

Technical data	
Operating Voltage	24 V D.C.
Current input	400 mA
Type of protection	IP40
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Weight	approx. 171 g
Dimensions	L: 157 mm H: 109 mm D: 45 mm

Accessories

Description	Code	Type
Connection board for duty room interface - white	EI 446 5	72582Z1

Door communication interface

Door communication interface for integration of a door communication module in the call system.
The door communication interface serves as a gateway between a combined speaker/microphone/call push-button and the controlling room terminal. Optional connection of up to 8 active modules (incl. intercom module) via the room data bus to a room terminal. Possible length restrictions for supply lines are to be considered. For example a door opener can be controlled via a separate control output in combination with the actuator unit.

Characteristics

Components

- 1 call push-button (red) with reassurance and orientation LEDs
- 1 cancel push-button (green) with confirmation LED
- Buttons can be disabled via programming

Inputs/Outputs

- Call reception input
- Output actuator

Functions

- Management of calls (e.g., in combination with a speaker/microphone/call push-button device)
- Transmission of speech and data to room terminal.
- Control function for door opener, for example, via a separate control output in combination with the output actuator (after a conversation)

Description	Code	Type
Door communication interface	EI 669 2	74188T1

Technical data	
Ambient temperature	5 °C ... 55 °C
Type of protection	IP40
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Weight	approx. 170 g
Version	for sm, fm and cavity wall installation
Dimensions	L: 228 mm H: 81 mm D: 45 mm (AP/incl. bed module)

Accessories

Description	Code	Type
Surface-mounting terminal for 74188A1 or 74188T1	EI 711 2	CLSD0003
Flush-mounting terminal box for 74188A1 or 74188T1	EI 752 6	CLSD0004
Cavity wall mounting terminal box for 74188A1 or 74188T1	EI 752 6	CLSD0007
Terminal box for MSU for 74188A1 or 74188T1	EI 754 2	CLSD0008
POF system cable for actuator databus	On request	CLSD0005
Door communication module	On request	CLSD0006

Base for ISDN interface

Connection board, connection terminals

Connection board for bed module surface-mounting with coupling terminals for passive devices, 24 VDC power supply and other functions for bed module.

Description	Code	Type
Connection board for surface mounting	EI 711 2	74174A1

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 228 mm H: 81 mm D: 45 mm

Flush-mounting connection base

Similar to 74174A1, but also present as flush-mounting board.

Description	Code	Type
Flush-mounting connection base	EI 752 6	74174B1

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 250 mm H: 102 mm D: 12.5 mm D: 40 mm (installation depth)

Connection base for cavity wall

Similar to 74174A1, but in the form of drywall connection board.

Description	Code	Type
Connection base for cavity wall	EI 753 4	74174C1

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 250 mm H: 102 mm D: 12.5 mm D: 40 mm (installation depth)

MSU connection base for bedhead module

Similar to 74174A1, but with connection board for MSU.

Description	Code	Type
MSU connection base for bedhead module	EI 754 2	74174D1

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 288 mm H: 81 mm D: 52 mm

Software licence - Nurse Call server for Clinos

The application software makes it possible to monitor and program the entire system, display the register of events as well as interface the fire detection, DECT, paging systems

- Clinos System configuration tool
- Assignment and configuration of rooms
- Definition of the nurse call system functions and parameters
- Setting the types of call, call group and update
- Configuration of actuators for external control systems (for example, lights, shutters)
- Setting radio and TV programs
- Service functions
- Database management system for archiving the data
- Instruments for management of the system for system analysis
- Network functions for access to the system
- Free configuration of services (networking zones)
- Assignment of times service
- Selection of call groups depending on the services
- Forwarding message to receiver between zones of the nurse call system
- Freely configurable announcement functions (public announcements)
- Selection of recipients for public announcements
- Monitoring and reporting errors (in compliance with Standard DIN VDE 0834)
- Graphic and tabular display of messages according to priority, type and time of the call
- Presence push-button “P1” and “P2”
- Calls (normal call, public toilet, doctor, priority call, etc.)
- Faults report (in compliance with DIN VDE 0834, Application area II)
- Response to calls (only in connection with the operating station)
- Cancellation of calls (only in connection with the operating station)
- Selection of rooms (only in connection with the operating station)
- Public announcement in room or selected recipients (only in connection with the operating station)
- Entry and management of data concerning patients, including management of beds (manual)
- Controlling accesses by means of user ID (if required)
- Data entry on a connected printer

Description	Code	Type
Nurse Call server for Clinos	EI 688 2	83MM300

Software License - DECT ESPA 4.4.4 License

Verification of hardware/ software compatibility recommended!

Basic software module for connecting the Clinos Call DECT system to the operating computer of the Clinos. Option to adapt settings to project specific requirements of the healthcare structures. Call messages from the system are transmitted to the Clino Call DECT system connected according to the configuration and are displayed in the configured DECT handsets.
Administrator access rights are required to be able to adapt e.g. the serial interface to the call system environment.
CD with application software for the following functions:

- Configuration tool with database management system for data backup
- Configuration of the serial interface (RS232/RS422)
- Interface for general call system software (IPC)
- Freely configurable recipient addresses for each nurse call group and call type.
- Allocation of call types to higher-level call groups
- Setup of different services (e.g., day, night service)
- Allocation of room configuration
- Adjustment of acoustic call tones
- Filter options for recipient address
- Configuration of different escalations for each call group
- Definition of display format of messages to be transmitted
- Text message transmission of a messages system to Clino Call DECT
- Service functions
- Simple system management tools for system analysis (Sys Log, etc.)
- Creation of a recipient list (file)
- Password protected access

Prerequisites:

- Operating computer of Clinos with available RS232 serial interface
- Serial connection cable

Description	Code	Type
DECT ESPA 4.4.4 Licence	EI 738 5	83WE140

RFID Card with PC reader

Clinos Card Manager (CCM) BASIC software module for managing RFID transponders in the systems used for personalized presence management by the nursing staff and other persons or device groups. Possibility to allocate different services and functions to the corresponding user groups (e.g. presence, reporting, etc.).
Combined use with the RFID PC reader for transmitting configuration data to RFID transponders. Reliable data transfer by using Desre technology.
Creation upon software startup of so-called RFID service transponders (in limited quantity) with unique/non-reproducible system access codes. RFID service transponders are used for tamper-resistant configuration and initialization of the RFID modules installed in the call system. The CCM includes the option of activating the personalized presence management function both by saving system messages as well as by means of the graphic user interface.
Installation of CCM on the Clinos operating computer.

User software for the following functions:

- Configuration tool for RFID transponder
- Definition of functions and service parameters for the nursing staff
- Configuration of area allocation and user classes
- Service functions

Description	Code	Type
RFID Card with PC reader	On request	83WE180

Terminator/shunt/repeater device

The terminator/shunt/repeater device allows the branching and amplification of the corridor data bus. Includes the connection terminals.
The system requires two devices for the corridor data bus:
- one for the data line:
- one for the audio line.

Characteristics

- Max. 64 devices per segment before a repeater is required
- Max. length of “corridor data bus” 400 m; beyond this, a repeater is required

Description	Code	Type
Terminator/shunt/repeater device	EI 714 6	72642C

Technical data	
Mounting	in flush-mounting box, DIN 49073
Type of protection	IP40 when installed with suitable cover plate
Dimensions	L: 71 mm H: 71 mm D 25 mm (installation depth)

Accessories

Description	Code	Type
Cover plate - white	EI 909 2	88910A3
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3

Terminator device

The device must be used as terminator for each corridor data bus. Includes the connection terminals.

Description	Code	Type
Terminator device	EI 715 3	72639A

Technical data	
Mounting	in flush-mounting box, DIN 49073
Type of protection	IP40 when installed with suitable cover plate
Dimensions	L: 71 mm H: 71 mm D 25 mm (installation depth)

Accessories

Description	Code	Type
Cover plate - white	EI 909 2	88910A3
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3

Blank cover plate

Cover plate with snap-fit with automatic block. To be used with mounting frames available.

Description	Code	Type
Blank cover plate	EI 909 2	88910A3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

24 V DC (5 A) Stabilised Power supply unit

The device makes it possible to power the nurse call system in direct current. Compact structure which uses the modern technology of timed circuits (in compliance with standard EN 02/03/6100) suitable for assembly on DIN rail. Surface-mounting can be done using assembly kit 89954 MA (safety cover). The power supply unit is protected against no-load operation voltage and is overload- and short-circuit-proof.

Description	Code	Type
24 V DC (5 A) Stabilised Power supply unit	EJ 223 7	89954M1

Technical data	
Rated voltage	230 V A.C.
Rated frequency	47 ... 63 Hz,
Output voltage	24 ... 28 V DC (adjustable)
Output current	5 A
Operating temperature	0°C - 50°C with cooling by natural convection
Storage temperature	-25 °C ... 85 °C
Air humidity	20 ... 80%
Type of protection	IP20
Weight	approx. 620 g
Version	for mounting on DIN rail by means of secondary distribution
Dimensions	L: 64 mm H: 124 mm D: 102 mm

Accessories

Description	Code	Type
Safety cover and assembly set for power supply unit (5A)	EJ 224 5	89954MA

24 V DC (10 A) Stabilised Power supply unit

The device makes it possible to power the nurse call system in direct current. Compact structure which uses the modern technology of timed circuits (in compliance with standard EN 02/03/6100) suitable for assembly on DIN rail. Surface-mounting can be done using assembly kit 89954 MB (safety cover). The power supply unit is protected against no-load operation voltage and is overload- and short-circuit-proof.

Description	Code	Type
24 V DC (10 A) Stabilised Power supply unit	EJ 249 2	89954R2

Technical data	
Rated voltage	230 V A.C.
Rated frequency	47 ... 63 Hz,
Output voltage	24 ... 28 V DC (adjustable)
Output current	10 A
Operating temperature	0°C - 60°C with cooling by natural convection
Storage temperature	-25 °C ... 85 °C
Air humidity	20 ... 80%
Type of protection	IP20
Weight	approx. 1.2 kg
Version	for mounting on DIN rail by means of secondary distribution
Dimensions	L: 120 mm H: 124 mm D: 102 mm

Accessories

Description	Code	Type
Safety cover and assembly set for power supply unit (10 A)	EJ 248 4	89954MB

Safety cover and assembly set for power supply unit (5A)

Mounting set (safety cover) for 5 A power supply for surface-mounting.

Description	Code	Type
Safety cover and assembly set for power supply unit (5A)	EJ 224 5	89954MA

Technical data	
Colour	grey, similar to RAL 7035

DIN rail included

Safety cover and assembly set for power supply unit (10 A)

Mounting set (safety cover) for 10 A power supply for surface-mounting.

Description	Code	Type
Safety cover and assembly set for power supply unit (10 A)	EJ 248 4	89954MB

Technical data	
Colour	grey, similar to RAL 7035

DIN rail included
(tubular rail)

Clinos Nurse call system

Duty room

Electronic module for duty room (4 lamp sections), white

DIN rail included
(tubular rail)

Duty room electronic module with integrated signal lamp designed with four lamp sections using power-saving LED technology. Allows connection of communication control unit (KSA) to corridor data bus.
Outputs protected against short-circuits and burnt fuse and short-circuit identification (for switching to a corridor lamp connected in parallel). The input and output parameters are adaptable to the requirements. Local storage of configuration data including the 8 alphanumeric characters text for the duty room, display and audio parameters, special functions and additional texts display (call types, etc.). Equipped with a service socket for the configuration module.
Startup supported by remote access functions. Simple installation using simple mounting technology provided with the corresponding connection board. The electronic module can be surface-mounted using its base plate.
Upgradable to the latest system firmware versions due to cutting edge Flash technology.

- Corridor databus interface for data and audio transmission
- Interface for connection of a communication control unit or a compact unit
- Socket for configuration module
- Service socket for connecting analysis tools
- Quiescent/working current option
- Compatibility mode for former/new DIN VDE 0834 versions
- Service and remote access function
- Switchable signal lamp (in combination with dummy plate)

Characteristics

- Room calls: Normal call, emergency call, diagnostic call, doctor call
- Cancellation and presence: Combined cancellation/presence, PR1 (green)
- Acoustic signals: Call transfer for normal call and emergency call, doctor call, staff call, meal call.
- Control of optical signals: Toilet alarm - white, room call - red, presence - green and yellow
- Security function: Short circuit protected, call circuit monitoring

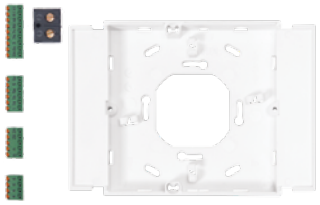
Description	Code	Type
Electronic module for duty room (4 lamp sections), white	EI 689 0	72583A1

Technical data	
Type of protection	IP40
Material	housing: PVC + ABS - FR
	lamp cover PC
Colour	white, similar to RAL 9016
	lamp cover: white, translucent
Weight	approx. 225 g
Dimensions	L: 158 mm H: 110 mm D: 90.5 mm

Accessories

Description	Code	Type
Connection board for duty room interface, white	EI 690 8	72583Z1

Duty room electronic module connection base, white



Description	Code	Type
Duty room electronic module connection base, white	EI 690 8	72583Z1

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 158 mm H: 110 mm D: 35 mm

Compact unit -KSA

The device acts as a platform with integrated operating elements such as presence button, normal call and doctor call push-button, and high-quality TFT display as well as a touch screen interface.
Equipped with 5.7” TFT colour display with background illumination: If presence is set, system messages are indicated optically and acoustically, organized by priority as assigned in the system (e.g. calls, malfunctions or presences). The buttons on the display can be used to display other messages coming from other rooms.
Speakerphone Communication in the hands-free mode via integrated speaker and microphone or using the telephone handset, in high audio quality due to digital transmission technology. The volume can also be changed during a call. Simple call setup using the touch screen display.
Staff can initiate conversation announcements to predefined targets.
Option for the display and selection/de-selection of services (interconnections) via the respective function keys, e.g. for forwarding of system messages to adjacent wards or to functional areas. Support of call upgrading function from rooms (beds) using the master station address book to trigger a patient call with higher priority in selective zones of the ward or in an intensive care unit.
Storage of all configuration data in the higher-level duty room interface. Start up is supported by a local service menu and extended remote access functions. Data connection with the duty room interface via the databus connection unit. Upgradeable to the latest firmware due to Flash technology.

Characteristics
- Databus for digital data and audio transmission to the duty room interface
- Service socket for connecting analysis tools
- Service and remote access function

Functions:
- Operation via touch screen display
- Display of system messages organized by priority
- Identification of call and status, with 16 alphanumeric characters per message
- Staff communication
- Discreet or hands-free speech
- Connection between freely configurable zones
- Selection of services (interconnections)
- Call triggering and presence indication

Members:
- Desktop housing
- Telephone handset
- Speaker and microphone
- Blue doctor call push-button 2 presence push-buttons (green/yellow)
- Function keys for: volume regulation, microphone muting and speaker button
- 1 TFT colour display (5.7”) with touch screen

Description	Code	Type
Compact unit -KSA	EI 691 6	74422A1N

Dati tecnici	
Ambient temperature	5 °C ... 55 °C
Type of protection	IP20
Material	PVC + ABS - FR
Colour	upper housing: white, similar to RAL 9016
	lower housing: white, similar to RAL 7035
Weight	approx. 1332 g
Dimensions	L: 360 mm D: 215 mm H: 80 mm

Accessories

Description	Code	Type
Databus connection unit for master station	EI 971 2	73070A

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Connection units for compact unit -KSA

The connection unit is provided with an 8-pin plug for connection of compact unit.

Description	Code	Type
Connection units for compact unit -KSA	EI 971 2	73070A

Technical data	
Assembly	in flush-mounting box, DIN 49073
Type of protection	IP 40 if installed with an appropriate cover plate
Colour	white, similar to RAL 9016
Dimensions	L: 71 mm H: 71 mm D: 25 mm (installation depth)

Accessories

Description	Code	Type
Cover plate for data Bus connection device	EI 909 2	88910A3
Single mounting frame	EI 998 5	88914A3

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Cover plate for compact unit connection device

Description	Code	Type
Cover plate for compact unit connection device	EI 972 0	88911J3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Room terminal ZT99

Room terminal with integrated operating elements such as presence buttons, normal call and doctor call button. High-quality LCD with additional multifunction buttons. Serves as a controller for patient room and offers connecting options for active databus components like bed modules and call modules. Equipped with dual line, 8-alphanumeric character backlit display, also legible from a great distance. If presence is set, the system message with the highest priority (e.g. call, malfunction or presence) is indicated optically and acoustically. The scroll buttons can be used to switch to other messages coming from other rooms. Speech (incoming and outgoing) in hands-free mode via integrated speaker and microphone in high audio quality due to digital transmission technology.
The room terminal supports the receipt of announcements and, if configured properly, the initiation of announcements to predefined targets. Option of displaying, selecting and de-selecting services (interconnections) via multifunction keys.
With integrated circuit technology for passive call and cancellation units including call circuit monitoring, the input and output parameters are adaptable to local requirements.
Room terminal integrated in corridor databus Upgradeable to the latest firmware due to Flash technology.

- Corridor databus for digital data and audio transmission
- Room databus for controlling a max. of 8 bed modules, call modules (also with communication function).
- Digital audio line for communication with bed.
- Configuration socket for selectable decentralized configuration in conjunction with the configuration module.
- Service socket for connecting analysis tools
- Bed identification for up to three beds with call circuit monitoring (with passive call units)
- Quiescent/working current option
- Compatibility mode for former/new DIN VDE 0834 versions.
- Service and remote access function.

Characteristics
Operating controls:

- Presence button PR1
- Presence button PR2
- Call button
- Doctor call button
- Multifunction keys for: Call query, call handling, display scroll button, service key
- Room calls: Normal call, emergency call, diagnostic call, doctor call
- Bathroom calls: Normal call, reminder call, bathroom emergency call
- Cancellation and presence: Combined cancellation/presence, Presence 1 (green) separate cancellation for bathroom/WC
- Acoustic signals: Call transfer for normal call and emergency call, doctor
- doctor call, staff call, meal call.
- Control of optical signals bathroom call lamp - white, room call lamp - red, presence lamps – green and yellow
- Security function: All outputs are short-circuit resilient, call circuit monitoring

Description	Code	Type
Room terminal ZT99	EI 692 4	76921B1

Technical data	
Operating Voltage	24 V DC
Material	PVC + ABS - FR
Assembly	sm, fm and cavity wall mounting
Colour	white, similar to RAL 9016
Dimensions	L: 250 mm L: 145 mm H: 37.5 mm (sm connection card included)

Accessories

Description	Code	Type
Doctor call button replacement set (dummy pole)	On request	88860FV
Surface-mounting connection board for room terminal	EI 693 2	76919A1
Flush-mounting connection board for room terminal	EI 739 3	76919B1
Cavity wall connection board for room terminal	EI 740 1	76919C1
Desktop unit for room terminal	EI 772 4	76919T1

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Table support for room terminal

Delivered without corridor terminal

Similar to 76919A1, but designed as a desk top unit for room terminal with 2 m connecting cable.

Description	Code	Type
Table support for room terminal	EI 772 4	76919T1

Accessories

Description	Code	Type
Terminator/shunt/repeater device (2 pieces required)	EI 714 6	72642C
Dummy cover plate (2 pieces required)	EI 909 2	88910A3
Auto-release plug system	EI 850 8	74199A
Cover plate for auto-release plug system	EI 851 6	88880D3
Triple frame	EI 871 4	888914C3

Surface-mounting connection board for room terminal

Surface-mounting connection board for room terminal. Acts as room distributor with plug-in terminal for connecting power supply, and passive room and corridor lamp components. The connection board contains over-voltage protection elements for outgoing room cabling. The supply terminals can be connected by means of screw terminals while all other connections are designed as plug-in terminals.
To make the wiring easy, the connection board is equipped with cable ducts.
A flush-mounting box assembly is recommended for laying the cables.

Description	Code	Type
Surface-mounting connection board for room terminal	EI 693 2	76919A1

Technical data	
Material	PVC + ABS - FR
Installation	surface-mounting
Colour	white, similar to RAL 9016
Dimensions	L: 250 mm L: 145 mm H: 37.5 mm

Connectable screw terminals for 2 x 2.5 mm² Cu wire end clamps, separately shielded supply for components in the room such as bed combination, call module, etc. via connectable miniature terminals, max. wire cross-section 0.5 mm².

Flush-mounting connection board for room terminal

Similar to 76959A1, but with flush-mounting connection board for room terminal.

Description	Code	Type
Flush-mounting connection board for room terminal	EI 739 3	76919B1

Technical data	
Material	PVC + ABS - FR
Installation	flush-mounted installation
Colour	white, similar to RAL 9016
Dimensions	L: 280 mm L: 175 mm H: 15 mm (incl. frame)

Connectable screw terminals for 2 x 2.5 mm² Cu wire end clamps, separately shielded supply for components in the room such as bed combination, call module, etc. via connectable miniature terminals, max. wire cross-section 0.5 mm².

Cavity wall surface-mounting connection board for room terminal

Similar to 76959A1, but as cavity wall connection board for room terminal.

Description	Code	Type
Cavity wall connection board for room terminal	EI 740 1	76919C1

Technical data	
Material	PVC + ABS - FR
Installation	cavity wall installation
Colour	white, similar to RAL 9016
Dimensions	L: 280 mm L: 175 mm H: 15 mm (frame incl.)

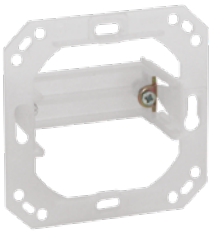
Connectable screw terminals for 2 x 2.5 mm² Cu wire end clamps, separately shielded supply for components in the room such as bed combination, call module, etc. via connectable miniature terminals, max. wire cross-section 0.5 mm².

Clinos Phon 95 retrofitting base

Connection board for retrofitting Clinos Phon 95 with screw terminal.
To be installed in connection board for Phon 99 room terminal.

Description	Code	Type
Clinos Phon 95 retrofitting base	76919I1	CLSL0010

Alphanumeric room display



Display module with high-quality LCD and integrated call/cancel push-button to indicate presence of the nursing staff. Equipped with dual line, 8- alphanumeric character backlit LCD, also legible from a greater distance (reading angle 110 degrees).
If presence is set, system messages such as calls, malfunctions and presences are displayed with top priority, rolling if necessary, with several messages of identical priority.
Display module integrated in corridor data bus or bed data bus. Firmware can be updated to the latest versions.

Characteristics

- Integrated LCD (2 x 8 characters)
- Indication of system report
- Sound generator for call forwarding
- Button for presence function
- LED reminder lamp (green)
- Button for call function
- LED orientation lamp and reassurance lamp, red
- Connection via bed databus or corridor databus

Spare part for
74910C2/C3/C4

Description	Code	Type
Alphanumeric room display	EI 736 9	74910C5

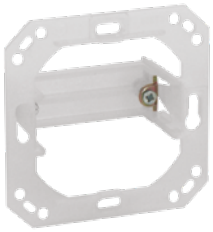
Display module,
flush-mounting connection,
connection terminals

Technical data	
Assembly	in flush-mounting box, DIN 49073
Type of protection	IP40
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Universal Display



To be connected to electronic module for duty rooms.
Equipped with two function buttons and a 2x8 alphanumeric LCD, allows selection and activation of the connection to the zones.
Equipped with dual line, 8 alphanumeric characters backlit LCD, also legible from a greater distance (reading angle: 110 degrees).
Installation in flush-mounting box DIN 49073.

Characteristics

- Built-in LCD display (2 x 8 characters)
- Indication of system report
- Sound generator for call forwarding
- Connection via bed databus or corridor databus

Display module, flush-mounting connection, connection terminals

Description	Code	Type
Universal Display	EJ 190 8	74911B5

Technical data	
Assembly	in flush-mounting box, DIN 49073
Type of protection	IP40
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Clinos Nurse call system
Corridor

—

Room electronic module EM 340 w/o bed databus, silver

Room electronic module EM 340 with integrated signal lamp, designed with four lamp sections and power-saving LED technology. Serves as a controller for room and service room without speech function with connecting options for call and cancel units, including call circuit monitoring. Equipped with service socket for the configuration module, selection switch for quiescent/working current, and option to switch off the signal lamps. Compatibility with the VDE standards. Allocation of a 8 alphanumeric characters text to the room and bed units.
Easy installation due to service friendly plugging in combination with accompanying connection board. Upgradable to future system firmware due to trendsetting Flash technology.

- designed without bed databus;
- Signal lamp using power-saving long-life LED technology;
- Bed identification for two beds with call circuit monitoring;
- Compatibility mode for former/latest DIN VDE 0834;
- Service and remote access functions;
- Optional relay and buzzer unit.

Characteristics

- Room calls: normal call, emergency call, diagnostic call, doctor call.
- Bathroom calls: normal call, reminder call, bathroom emergency call.
- Cancellation and presence: Combined cancellation/presence, Presence 1 (green) separate cancellation for bathroom/WC
- Acoustic signals: Call transfer for normal call and emergency call, doctor call, staff call, meal call.
- Control of optical signals: Bathroom call lamp - white, room call lamp - red, presence lamps - green and yellow.
- Security function: Short-circuit resilient, call circuit monitoring.

Description	Code	Type
Room electronic module EM 340 w/o bed databus, silver	EI 765 8	72575N1

Technical data	
Assembly	surface mounting
Type of protection	IP 20
Material	PVC + ABS - FR
Colour	silver, similar to RAL 9006
	lamp cover: white, translucent
Dimensions	L: 120 mm H: 120 mm D: 47 mm (incl. connection board)

Accessories

Description	Code	Type
Connection board for EM 340 with/without bed databus, silver	EI 767 4	72575Z1
Connection board for EM 340 with/without bed databus, white	On request	72575Z2
Adapter for name plate xS1, silver	On request	72556T1
Name plate for LED corridor lamp CL340 Grey	EI 770	72556S1
Name plate for LED corridor lamp CL340 White	On request	72556S2
Lighting for name plate	EI 771 6	72556L1

Room electronic module EM 341 w/o bed databus, white

Similar to 72575N1, but white.

Characteristics

- Room calls: normal call, emergency call, diagnostic call, doctor call
- Bathroom calls: normal call, reminder call, bathroom emergency call
- Cancellation and presence: Combined cancellation/presence, Presence 1 (green) separate cancellation for bathroom/WC
- Acoustic signals: Call transfer for normal call and emergency call, doctor call, staff call, meal call.
- Control of optical signals: Bathroom call lamp - white, room call lamp - red, presence lamps - green and yellow
- Security function: Short-circuit resilient, call circuit monitoring

Description	Code	Type
Room electronic module EM 341 w/o bed databus, white	On request	72575N2

Accessories

Description	Code	Type
Connection board for EM 340 with/without bed databus, silver	EI 767 4	72575Z1
Connection board for EM 340 with/without bed databus, white	On request	72575Z2
Adapter for name plate xS1, silver	On request	72556T1
Name plate for LED corridor lamp CL340 Grey	EI 770	72556S1
Name plate for LED corridor lamp CL340 White	On request	72556S2
Lighting for name plate	EI 771 6	72556L1

Room electronic module EM 340 with bed databus, silver

Similar to 72575N1, but with following additional characteristics:
- With bed databus for the connection of active bed databus components.

Characteristics
- Room calls: normal call, emergency call, diagnostic call, doctor call
- Bathroom calls: Normal call, enhanced call, bathroom emergency call
- Cancellation and presence: Combined cancellation/presence, Presence 1 (green) separate cancellation for bathroom/WC
- Acoustic signals: Call transfer for normal call and emergency call, doctor call, staff call, meal call.
- Optical signals: white WC call lamp, red corridor lamp, green presence lamp.
- Security function: All outputs are short-circuit resilient, call circuit monitoring.

Description	Code	Type
Room electronic module EM 340 with bed databus, silver	EI 766 6	72575P1

Technical data	
Assembly	surface mounting
Type of protection	IP20
Material	PVC + ABS - FR
Colour	silver, similar to RAL 9006
	lamp cover: white, translucent
Dimensions	L: 120 mm H: 120 mm D: 47 mm (connection board included)

Accessories

Description	Code	Type
Connection board for EM 340 with/without bed databus, silver	EI 767 4	72575Z1
Connection board for EM 340 with or w/o bed databus, white	On request	72575Z2
Adapter for name plate xS1, silver	On request	72556T1
Name plate for LED corridor lamp CL340 Grey	EI 770	72556S1
Name plate for LED corridor lamp CL340 White	On request	72556S2
Lighting for name plate	EI 771 6	72556L1

Room electronic module EM 341 with bed databus, white

Similar to 72575N2, but with following additional characteristics:
- With bed databus for the connection of active room databus components.

Characteristics

- Room calls: normal call, emergency call, diagnostic call, doctor call
- Bathroom calls: Normal call, enhanced call, bathroom emergency call
- Cancellation and presence: Combined cancellation/presence, Presence 1 (green) separate cancellation for bathroom/WC
- Acoustic signals: Call transfer for normal call and emergency call, doctor call, staff call, meal call.
- Optical signals: white WC call lamp, red corridor lamp, green presence lamp.
- Security function: All outputs are short-circuit resilient, call circuit monitoring.

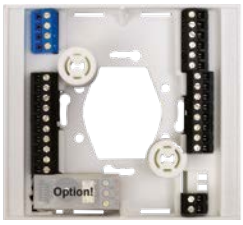
Description	Code	Type
Room electronic module EM 341 with bed databus, white	On request	72575P2

Technical data	
Assembly	on a wall
Type of protection	IP20
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
	lamp cover: white, translucent
Dimensions	L: 120 mm H: 120 mm D: 47 mm (connection board included)

Accessories

Description	Code	Type
Connection board for EM 340 with/without bed databus, silver	EI 767 4	72575Z1
Connection board for EM 340 with/without bed databus, white	On request	72575Z2
Adapter for name plate xS1, silver	On request	72556T1
Name plate for LED corridor lamp CL340 Grey	EI 770	72556S1
Name plate for LED corridor lamp CL340 White	On request	72556S2
Lighting for name plate	EI 771 6	72556L1

Connection board for EM 341, white



Connection board for room electronic module EM 341 with and w/o bed databus.
Optimized setup and wiring due to fixed screw terminals.
Provision for inclusion of relay module with buzzer unit.

Description	Code	Type
Connection board for EM 341, white	On request	72575Z2

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 115 mm H: 110 mm D: 25 mm

Connection board for EM 340, silver

Similar to 72575Z2, but silver.

Description	Code	Type
Connection board for EM 340, silver	EI 767 4	72575Z1

Technical data	
Material	PVC + ABS - FR
Colour	silver, similar to RAL 9006
Dimensions	L: 115 mm H: 110 mm D: 25 mm

Relay module with buzzer unit for EM 340/341

Relay and buzzer unit for connection, e.g. to external management systems and for local acoustic alarms.

Description	Code	Type
Relay module with buzzer unit for EM 340/341	EI 768 2	72575Z3

Room electronic module EM 140 (4 lamps) without bed databus

Spare parts for 72570D, 72570D2, 72570A, 72570A2

Master control unit for room, is available in several versions. The call and cancellation circuits use passive push-buttons. In versions with room databus other active units can be connected (1 display module, 1 communication module and 8 call modules), to which an 8-alphanumeric character text can be assigned as bus identification.
The room and bed identifications are defined during putting into service, using the configuration module.

- Design without bed databus
- Signal lamp using power-saving LED technology
- Bed identification for two beds with call circuit monitoring
- Switchable signal lamp
- Compatibility mode for former/latest DIN VDE 0834
- Applicable to all systems

Characteristics

- Bed databus for connecting additional bed call devices and display modules in rooms.
- Room calls: normal call, emergency call, diagnostic call, doctor call
- Bathroom calls: normal call, reminder call, bathroom emergency call
- Cancellation and presence: Combined cancellation/presence, Presence 1 (green) separate cancellation for bathroom/WC
- Acoustic signals: Call transfer for normal call and emergency call, doctor call, staff call, meal call.
- Control of optical signals: Bathroom call lamp - white, room call lamp - red, presence lamps - green and yellow
- Security function: All outputs are short-circuit resilient, call circuit monitoring
- Switchable indicator light (to be used without lamps, dummy cover plate necessary)

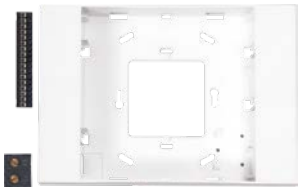
Description	Code	Type
Room electronic module EM 140 (4 lamps) without bed databus	EI 976 1	72570P1

Technical data	
Assembly	surface-mounting
Type of protection	IP20
Material	PVC
Colour	see connection card
	lamp cover: white, translucent
Dimensions	L: 110 mm H: 110 mm D: 75 mm (without connection board)
	L: 158 mm H: 110 mm D: 87 mm (with connection board)

Accessories

Description	Code	Type
Connection board for EM 140 w/o bed databus, white	EI 921 7	72570Z2
Connection board for EM 140 w/o bed databus, grey	EI 913 4	72570Z1
Dummy cover plate for room electronic module	On request	88893AV

Connection board for EM 140 w/o bed databus, white



Connection board,
connection terminals

Connection board for 72570xx room electronic module, white.

Description	Code	Type
Connection board for EM 140 w/o bed databus, white	EI 921 7	72570Z2

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 158 mm H: 110 mm D: 35 mm

Connection board for EM 140 w/o bed databus, grey

Similar to 72570Z2, but grey.

Description	Code	Type
Connection board for EM 140 w/o bed databus, grey	EI 913 4	72570Z1

Technical data	
Material	PVC + ABS - FR
Colour	grey, similar to RAL 7040
Dimensions	L: 158 mm H: 110 mm H: 35 mm

Room electronic module EM 140 (4 lamps) with bed databus

Similar to 72570P1, but with following additional characteristics:
- With bed databus for the connection of active room databus components

Characteristics

- Bed databus to connect additional bed call devices and display modules in the room.
- Room calls: normal call, emergency call, diagnostic call, doctor call.
- WC calls: normal call, enhanced call, bathroom emergency call.
- Cancellation and presence: Combined cancellation/presence, Presence 1 (green) separate cancellation for bathroom/WC
- Acoustic signals: Call transfer for normal call and emergency call, doctor call, staff call, meal call.
- Optical signals: WC call lamp - white, corridor lamp - red lamp, presence lamp - green.
- Security function: Protected from short-circuit.

Description	Code	Type
Room electronic module EM 140 (4 lamps) with bed databus	EI 991 0	72571P1

Technical data	
Assembly	surface mounting
Type of protection	IP20
Material	PVC
Colour	see connection board
	lamp cover: white, translucent
Dimensions	L: 110 mm H: 110 mm D: 75 mm (without connection board)
	L: 158 mm H: 110 mm D: 87 mm (with connection board)

Accessories

Description	Code	Type
Connection board for EM 140 with bed databus, white	EI 921 7	72570Z2
Connection board for EM 140 with bed databus, grey	EI 913 4	72570Z1
Dummy cover plate for room electronic module	On request	88893AV

Connection board for EM 140 with bed databus, white

Connection board for 72570xx room electronic module, white.

Description	Code	Type
Connection board for EM 140 with bed databus, white	EI 923 3	72571Z2

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 158 mm H: 110 mm D: 35 mm

Connection board, connection terminals

Connection board for EM 140 with bed databus, grey

Similar to 72570Z2, but grey.

Description	Code	Type
Connection board for EM 140 with bed databus, grey	EI 916 7	72571Z1

Technical data	
Colour	grey, similar to RAL 7040

LED corridor lamp CL 340, silver

Stylish LED light (with optional name plate) used as room signal lamp, equipped with LED technology to guarantee the highest standards in terms of reliability and energy-saving.
It is also possible to mount the LED lamp rotated by approximately 180°.
The colour sequence remains the same due to the lamp insert which can also be rotated.
Use of an optional name plate is possible. Optionally with or without lighting element for illumination of the name plate.

Description	Code	Type
LED corridor lamp CL 340, silver	EI 769 0	72556D1

Technical data	
Assembly	on sm installation box or directly surface-mounted
Colour	silver, similar to RAL 9006 (housing) with white/red/green/yellow LEDs
Dimensions	L: 120 mm H: 119 mm D: 42.4 mm

Connection plate included

Accessories

Description	Code	Type
Name plate for LED corridor lamp CL340 Grey	EI 770 8	72556S1
Name plate for LED corridor lamp CL340 White	On request	72556S2
Lighting element for the name plate	EI 771 6	72556L1

LED corridor lamp CL 341, white

Connection plate included

Similar to 72556D1, but white.

Description	Code	Type
LED corridor lamp CL 341, white	On request	72556D2

Technical data	
Assembly	on sm installation box or directly surface-mounted
Colour	white, similar to RAL 9016 (housing) with white/red/green/yellow LEDs
Dimensions	L: 120 mm H: 119 mm D: 42.4 mm

Accessories

Description	Code	Type
Name plate for LED corridor lamp CL340 Grey	EI 770 8	72556S1
Name plate for LED corridor lamp CL340 White	On request	72556S2
Lighting element for the name plate	EI 771 6	72556L1

Name plate for LED corridor lamp CL340

Can be used individually and in combination with LED lamp. The label is easily replaceable. The label is removed by taking off the translucent cover.

Description	Code	Type
Name plate for LED corridor lamp CL340	EI 770 8	72556S1

Technical data	
Colour	silver, similar to RAL 9006, (housing)
Dimensions	L: 120 mm H: 108 mm D: 30 mm

Accessories

Description	Code	Type
Adapter for name plate in conjunction with EM340	On request	72556T1

Name plate for LED corridor lamp CL341

Similar to 72556S1, but white.

Description	Code	Type
Name plate for LED corridor lamp CL341	On request	72556S2

Technical data	
Colour	white, similar to RAL 9016, (housing)
Dimensions	L: 120 mm H: 108 mm D: 30 mm

Accessories

Description	Code	Type
Adapter for name plate in conjunction with EM340	On request	72556T2

Lighting element for the name plate

Optional lighting element for the name plate 72556S1/S2.

Description	Code	Type
Lighting element for the name plate	EI 771 6	72556L1

Adapter for name plate in conjunction with EM340

Mounting adapter for height adjustment between nameplate and in-room electronic module EM 340. The mounting adapter is used for affixing the name plate and for installation of the electronic module.

Description	Code	Type
Adapter for name plate in conjunction with EM340	On request	72556T1

Adapter for name plate

Technical data	
Colour	silver, similar to RAL 9006, (housing)

Adapter for name plate xS2, RAL 9016

Similar to 72556T1, but white.

Description	Code	Type
Adapter for name plate xS2, RAL 9016	On request	72556T2

Adapter for name plate

Technical data	
Colour	white, similar to RAL 9016, (housing)

Corridor lamp CL141 (4 lamps)

Must be connected to a room terminal or to an electronic module, for the display of their signals.
Four independent lamp sectors are available (red, green, white and yellow).
The corridor lamp must be installed on the wall using its connection board.

Description	Code	Type
Corridor lamp CL141 (4 lamps)	EI 933 2	72569DL

Technical data	
Assembly	surface mounting
Type of protection	IP40
Colour	white, similar to RAL 9016, (plastic base)
	lamp cover: white, translucent
Dimensions	L: 158 mm H: 110 mm D: 87 mm

Accessories

Description	Code	Type
Connection board for corridor lamps CL13x/14x, white	On request	72569Z4
Connection board for corridor lamps CL13x/14x, grey	EI 906 8	72569Z2

Connection board for corridor lamps CL13x/14x, white

Connection board for corridor lamps CL13x/14x.

Description	Code	Type
Connection board for corridor lamps CL13x/14x, white	On request	72569Z4

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 158 mm H: 110 mm D: 35 mm

Connection board for corridor lamps CL13x/14x, grey

Similar to 72569Z4, but grey.

Description	Code	Type
Connection board for corridor lamps CL13x/14x, grey	EI 906 8	72569Z2

Technical data	
Material	PVC + ABS - FR
Colour	grey, similar to RAL 7040
Dimensions	L: 158 mm H: 110 mm D: 35 mm

Corridor lamp CL 220 (red/green)

Signal lamp,
cover plate, frame

Corridor lamp with comfortable LED technology with 2 lamp sections for installation in a round surface-mounting switch box.

Description	Code	Type
Corridor lamp CL 220 (red/green)	EI 378 0	72555B1

Technical data	
Assembly	in surface-mounting box, DIN 49073
Type of protection	IP40
Colour	white, similar to RAL 9016, (cover plate)
	LED: red, green
Weight	approx. 67 g
Dimensions	L: 71 mm H: 71 mm
	L: 81 mm H: 81 mm (including cover plates and assembly frame) D: 25 mm (installation depth)

Corridor lamp CL 230 (red/white/green)

Must be connected to a room terminal or to an electronic module, for the display of their signals. Available with 3 (red, green and white) or 4 (red, green, white and yellow) independent light sections. The corridor lamp must be surface-mounted using its base plate.

Description	Code	Type
Corridor lamp CL 230 (red/white/green)	EI 379 8	72555C1

Technical data	
Assembly	in surface-mounting box, DIN 49073
Type of protection	IP40
Colour	white, similar to RAL 9016, (cover plate)
	LED: red, white, green
Weight	approx. 67 g
Dimensions	L: 71 mm H: 71 mm
	L: 81 mm H: 81 mm (including cover plate and frame) D: 25 mm (installation depth)

Corridor lamp CL 231 (red/yellow/green)

Similar to 72555C1, but provided with red, yellow and green indicator lights.

Description	Code	Type
Corridor lamp CL 231 (red/yellow/green)	On request	72555D1

Technical data	
Assembly	in surface-mounting box, DIN 49073
Type of protection	IP40
Colour	white, similar to RAL 9016, (cover plate)
	LED: red, yellow, green
Weight	approx. 67 g
Dimensions	L: 71 mm H: 71 mm
	L: 81 mm H: 81 mm (including cover plate and assembly frame) D: 25 mm (installation depth)

Information display (single-sided) for surface-mounting

Information display for surface-mounting with red LED dot matrix for the self-luminous alphanumeric plain text display. Speakers for announcements and a tone generator for acoustic call forwarding are integrated.

- System message display with room and bed identification (up to 8 alphanumeric characters) and symbols for call type (e.g. bathroom, doctor, fault).
- Priority-controlled display with automatic scrolling function (with arrows) with several pending messages for a priority Optimal time display in digital format (e.g. 13:40).
- Function monitoring via higher level control unit (e.g. zone concentrator).

Characteristics

Range of functions:

- Display with alphanumeric room and bed identification
- Call type display
- Time display (configurable, i.e. if no messages are pending)
- Acoustic call forwarding (configurable)
- Possibility of configuration of announcements via speaker

Order of display:

- Messages are displayed by priority (in the sequence: alarm call - emergency call - call)
- If several messages of the same priority are pending, they are alternately scrolled

Description	Code	Type
Information display (single-sided) for surface-mounting	EI 496 0	74656A1

Technical data	
Display	LED dot matrix (8 characters + call type symbol)
Type of protection	IP40
Material	galvanised steel plate
Colour	white, similar to RAL 9010
Version	for surface-mounting
Dimensions	L: 751 mm L: 55 mm H: 135 mm

Information display (single-sided) for ceiling mounting

Like 74656A1, but designed for ceiling mounting.

Description	Code	Type
Information display (single-sided) for ceiling mounting	EI 497 8	74656B1

Technical data	
Version	single-sided for ceiling mounting

Accessories

Description	Code	Type
Ceiling mounting set	EI 747 6	89603C1

—

Information display (double-sided) for ceiling mounting

Like 74656A1, but double-sided and designed for ceiling mounting. Possibility of system message display from different nurse call zones (front/back).

Description	Code	Type
Information display (double-sided) for ceiling mounting	EI 666 8	74657A1

Technical data	
Version	double-sided for ceiling mounting
Dimensions	L: 751 mm L: 86 mm H: 135 mm (+ 42 mm central bar)

Accessories

Description	Code	Type
Ceiling mounting set	EI 747 6	89603C1

—

Information display 3/5 - single-sided for surface-mounting

Like 74656A1, but also display of presence information.

Description	Code	Type
Information display 3/5 - single-sided for surface-mounting	EI 785 6	74656C1

—

Information display 3/5 - double-sided for ceiling mounting

Like 74656C1, but double-sided and designed for ceiling mounting.

Description	Code	Type
Information display 3/5 - double-sided for ceiling mounting	On request	74657C1

Accessories

Description	Code	Type
Ceiling mounting set	EI 747 6	89603C1

—

Ceiling mounting set

Set for mounting the appropriate information display, single- or double-sided, to ceilings.

Description	Code	Type
Ceiling mounting set	EI 747 6	89603C1

Technical data	
Material	Thermoplastic
Colour	white, similar to RAL 9016
Dimensions	max. L: 600 mm (variable)

2 ceiling mounting pipes, fastening material

Direction lamp with 2 lamp cells

Direction lamp with 2 lamp cells (neutral design, labelling set included) for direction indication of system messages from different functional areas of the higher level control unit (here: zone controller). Priority-controlled display with different flash signals: alarm call - emergency call - call.
Functional monitoring via superior level control unit.
1) Call: Continuous signal
2) Emergency call: 1 second on, 1 second off
3) Emergency call: 1/2 second on, 1/2 second off

Characteristics

- Signal lamp using power-saving long-life LED technology.

Spare part for
72574C, 72574C2

The 35 mm labelling kit (72515Z1) is included!

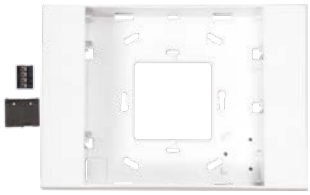
Description	Code	Type
Direction lamp with 2 lamp cells	EI 992 8	72574M1

Technical data	
Assembly	sm assembly
Type of protection	IP20
Material	PVC
Colour	lamp cover: white translucent
Dimensions	L: 158 mm H: 110 mm D: 87 mm

Accessories

Description	Code	Type
Connection board for direction lamp, white	EI 435 8	72574Z2

Connection board for direction lamp, white



Connection board for direction lamp including memory module.

Description	Code	Type
Connection board for direction lamp, white	EI 435 8	72574Z2

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 158 mm H: 110 mm D: 35 mm

Connection board, connection terminal, memory module

Zone lamp

Must be connected to the zone concentrator for the display of their signals.
Available in different versions, each consisting of one or more lamp covers, neutral.
A lamp section is associated to each lamp cover.
The zone lamp must be surface-mounted.
The lamps are included.

Description	Code	Type
Neutral lamp cover	EI 935 7	72515A7

Technical data	
Colour	RAL 7040 grey base, white cover
Protection class	IP20
Dimensions of single lamp cover (LxHxD):	158x110x87 mm

Labelling set for zone indicator lamp, 35 mm (accessories)

Contain 2 kits each

Adhesive labelling set with numbers and letters up to a max. height of 35 mm.
Includes digits 0-9 as well as the letters “EG”, “OG”, “DG”. Direction arrows and symbols for “Telephone” and “Fire”.

Description	Code	Type
Labelling set for zone indicator lamp, 35 mm (accessories)	On request	72515Z1

Labelling set for zone indicator lamp, 50 mm (accessories)

Same as 72515Z1, but up to a max. letter height of 50 mm.

Description	Code	Type
Labelling set for zone indicator lamp, 50 mm (accessories)	On request	72515Z2

Clinos Nurse call system

Room, bathrooms and common spaces

—

Room terminal ZT99

Room terminal with integrated operating elements such as presence buttons, normal call and doctor call button. High-quality LCD with additional multifunction buttons. Serves as a controller for patient room and offers connecting options for active databus components like bed modules and call modules. Equipped with dual line, 8-alphanumeric character backlit display, also legible from a great distance. If presence is set, the system message with the highest priority (e.g. call, malfunction or presence) is indicated optically and acoustically. The scroll buttons can be used to switch to other messages coming from other rooms. Speech (incoming and outgoing) in hands-free mode via integrated speaker and microphone in high audio quality due to digital transmission technology.
The room terminal supports the receipt of announcements and, if configured properly, the initiation of announcements to predefined targets. Option of displaying, selecting and de-selecting services (interconnections) via multifunction keys.
With integrated circuit technology for passive call and cancellation units including call circuit monitoring, the input and output parameters are adaptable to local requirements.
Local storage of configuration data including the 8-character alphanumeric text for the duty room and bed, display and audio parameters, special functions and additional display texts (call types, etc.). Equipped with service socket for the configuration module, selection switch for quiescent/working current.
Start up is supported by a local service menu and extended remote access functions.
Easy installation by means of easy assembly technology with accompanying connection board. Room terminal integrated in corridor databus Upgradeable to the latest firmware due to Flash technology.

- Corridor databus for digital data and audio transmission
- Room databus for controlling a max. of 8 bed modules, call modules (also with communication function).
- Digital audio line for communication with bed.
- Configuration socket for selectable decentralized configuration in conjunction with the configuration module.
- Service socket for connecting analysis tools
- Bed identification for up to three beds with call circuit monitoring (with passive call units)
- Quiescent/working current option
- Compatibility mode for former/new DIN VDE 0834 versions.
- Service and remote access function.

Characteristics
Operating controls:
- Presence button PR1
- Presence button PR2
- Call button
- Doctor call button
- Multifunction keys for: Call query, call handling, display scroll button, service key
- Patient room calls: normal call, emergency call, diagnostic call, doctor call
- Bathroom calls: normal call, reminder call, bathroom emergency call
- Cancellation and presence: Combined cancellation/presence, Presence 1 (green) separate cancellation for bathroom/WC
- Acoustic signals: Call transfer for normal call and emergency call, doctor call, staff call, meal call.
- Control of optical signals bathroom call lamp - white, patient room call lamp - red, presence lamps - green and yellow
- Security function: All outputs are short-circuit resilient, call circuit monitoring

Description	Code	Type
Room terminal ZT99	EI 692 4	76921B1

Technical data	
Operating Voltage	24 V DC
Material	PVC + ABS - FR
Assembly	sm, fm and cavity wall mounting
Colour	white, similar to RAL 9016
Dimensions	L: 250 mm L: 145 mm H: 37.5 mm (sm connection board included)

Accessories

Description	Code	Type
Doctor call button replacement set (dummy)	On request	88860FV
Surface-mounting connection board for room terminal	EI 693 2	76919A1
Flush-mounting connection board for room terminal	EI 739 3	76919B1
Cavity wall connection board for room terminal	EI 740 1	76919C1
Clinos retrofitting base	76919I1	CLSL0010

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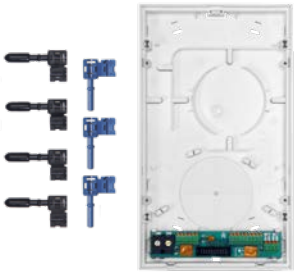
Surface-mounting connection board for room terminal



BaSurface-mounting connection board for room terminal. Acts as room distributor with plug-in terminals for connecting power supply, and passive room and corridor lamp components The connection board contains over-voltage protection elements for outgoing room cabling. To make the wiring easy, the connection board is equipped with cable ducts. A surface-mounting box assembly is recommended for laying the cables

Description	Code	Type
Surface-mounting connection board for room terminal	EI 693 2	76919A1

Technical data	
Installation	surface-mounting
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 250 mm L: 145 mm H: 37.5 mm

Connectable screw terminals for up to 2 x 2.5 mm² Cu wire end sleeve, separately shielded supply for components in the room such as bed combination, call module, etc. via connectable miniature terminals, max. wire cross-section 0.5 mm².

Flush-mounting connection board for room terminal

Similar to 76959A1, but with surface-mounting connection board for room terminal.

Description	Code	Type
Flush-mounting connection board for room terminal	EI 739 3	76919B1

Technical data	
Installation	surface-mounting installation
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 280 mm L: 175 mm H: 15 mm (frame incl.)

Connectable screw terminals for up to 2 x 2.5 mm² Cu wire end sleeve, separately shielded supply for components in the room such as bed combination, call module, etc. via connectable miniature terminals, max. wire cross-section 0.5 mm².

Cavity wall connection board for room terminal

Similar to 76959A1, but as cavity wall connection board for room terminal.

Description	Code	Type
Cavity wall connection board for room terminal	EI 740 1	76919C1

Technical data	
Installation	cavity wall installation
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 280 mm L: 175 mm H: 15 mm (frame incl.)

Connectable screw terminals for up to 2 x 2.5 mm² Cu wire end sleeve, separately shielded supply for components in the room such as bed combination, call module, etc. via connectable miniature terminals, max. wire cross-section 0.5 mm².

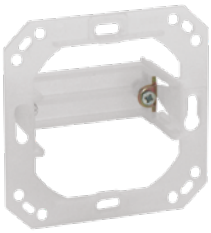
Flush-mounting connection board for room terminal

Description	Code	Type
Clinos Phon 95 retrofitting base	76919I1	CLSL0010

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016

Connectable screw terminals for up to 2 x 2.5 mm² Cu wire end sleeve, separately shielded supply for components in the room such as bed combination, call module, etc. via connectable miniature terminals, max. wire cross-section 0.5 mm².

Alphanumeric room display



Display module with high-quality LCD and integrated call/cancel push-button to indicate presence of the nursing staff. Equipped with dual line, 8 alphanumeric character backlit LCD, also legible from a greater distance (reading angle 110 degrees). If presence is set, system messages such as calls, malfunctions and presences are displayed with top priority, rolling if necessary, with several messages of identical priority.
Display module integrated in corridor data bus or bed data bus. Firmware can be updated to the latest versions.

Characteristics

- Built-in LCD display (2 x 8 characters)
- Indication of system report
- Sound generator for call forwarding
- Button for presence function
- LED reminder lamp (green)
- Button for call function
- LED orientation lamp and reassurance lamp, red
- Connection via bed databus or corridor databus

Spare part for
74910C2/C3/C4

Display module,
surface-mounting connection,
connection terminals

Description	Code	Type
Alphanumeric room display	EI 736 9	74910C5

Technical data	
Assembly	in surface-mounting box, DIN 49073
Type of protection	IP40
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Electronic module for handset/microtelephone

Bed module, terminal for surface-mounting/flush-mounting/drywall; power supply unit for medical use (grey with red/green icon)

With the bed module, all required call and cancel functions are available directly at the bedside: patient handset, pear push-button or multiple push-button (connection via auto-release plug). Thus, each bed is provided with a speech facility integrated in the patient handset to allow communication (discreet/hands-free) with the nursing staff.
A maximum of 8 bed modules can be connected to the room terminal via the bed databus. In conjunction with a control output and an actuator unit, several control functions such as light control can be set up.

Characteristics

Components

- 1 call push-button with LED reassurance lamp and locator lamp
- 1 connector (L) for the auto-release plug for connecting the patient handset, a pear push-button or a multiple push-button
- 1 auxiliary plug contact for connecting pear push-button or a multiple push-button (7-pin)
- 1 auxiliary plug, 6-pin for connection of a diagnostic device with its own electrical isolation according to DIN 60601.1.1
- Speaker and microphone for hands-free function
- Cancel push-button (green)

Inputs/Outputs

- TV control
- TV sound
- 2 relay outputs
- Actuator
- Radio

Functions

- Nurse call activation
- Nurse call conversations, information, radio programs selection, TV sound
- Control functions such as light control via a separate control output in conjunction with the actuator unit
- TV control

Description	Code	Type
Electronic module for handset/microtelephone	EI 710 4	74188A1

Technical data	
Ambient temperature	5 °C ... 55 °C
Type of protection	IP40
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Weight	approx. 170 g
Version	for sm, fm and cavity wall mounting
Dimensions	L: 228 mm H: 81 mm D: 45 mm (SM/includes bed module)

Accessories

Description	Code	Type
Flush-mounting connection board for bed module	EI 752 6	74174B1
Surface-mounting connection board for bed module	EI 711 2	74174A1
Cavity wall connection board for bed module	EI 753 4	74174C1
MSU (medical supply unit) connection board for bed module	EI 754 2	74174D1
Databus system cable actuator (POF/synthetic optic fibre)	On request	89734PA

Microphone interface

Microphone interface for bedside hands-free function. The bedside microphone for the corresponding cover plate is enabled via a special control contact of the call module.

Description	Code	Type
Microphone interface	EI 314 5	71048B

Technical data	
Assembly	in fm installation box, DIN 49073
Type of protection	IP 40 if installed with its cover plate
Dimensions	L: 71 mm H: 71 mm D: 25 mm (installation depth)

Accessories

Description	Code	Type
Cover plate with microphone	EI 370 7	71052D3

Cover plate for microphone interface

Cover plate with microphone as a supplement for the microphone interface. The cover plate contains the microphone for bedside hands-free function.

Description	Code	Type
Cover plate for microphone interface	EI 370 7	71052D3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Speaker

Speaker with central insert, flush-mounted supporting plate and expanding/retaining clamps for flush-mounting boxes.

Description	Code	Type
Speaker	EJ 545 3	71008C3

Technical data	
Assembly	in flush-mounting box, DIN 49073
Colour	white, similar to RAL 9016
Dimensions	L: 71 mm H: 71 mm D: 40 mm (installation depth)

Accessories

Description	Code	Type
Standard plate	EI 370 7	88910B3

Cover plate for speaker

Standard plate with insertion hole in accordance with DIN 49075.

Description	Code	Type
Cover plate for speaker	EI 887 0	88910B3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Call combination

Suitable for NO/NC circuits.
Call push-button with red LED for reassurance/orientation.
Complete with 7-pin DIN socket.
Installation in flush-mounting box DIN 49073. To be completed with cover plate, available in nurse call, doctor call versions and frame.

Description	Code	Type
Call button with N.O. 7-pin socket	EI 873 0	73022B
Call button with N.C. 7-pin socket	EI 874 8	73023B

Technical data	
Protection class	IP40
Dimensions (LxH):	71x71 mm

Cover plate for call combination

Description	Code	Type
Cover plate for call combination	EI 875 5	88881 A3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Call module with push-button and 1 7-pin socket

Like 73073D3, but without 6-pin socket.

Characteristics

- 1 call button
- 1 orientation/reassurance LED (red)
- 1 socket, 7-pin

Description	Code	Type
Call module with push-button and 1 7-pin socket	EI 995 1	73073E3

Spare part for
73071E, 73073E

Technical data	
Assembly	in flush-mounting box, DIN 49073
Type of protection	IP 40 if installed with its cover plate
Dimensions	L: 71 mm H: 71 mm D 25 mm (installation depth)

Call module,
connection terminal

Accessories

Description	Code	Type
Cover plate with button (red) and 1 socket	EI 902 7	88881L3

Call module with push-button and 1 7-pin socket

Like 73075B, but without 6-pin socket.

Characteristics

- 1 call button
- 1 orientation/reassurance LED (red)
- 1 socket, 7-pin

Description	Code	Type
Call module with push-button and 1 7-pin socket	EI 718 7	73075A

Accessories

Description	Code	Type
Cover plate with call button (red) and 1 socket	EI 902 7	88881L3

Cover plate with button (red) and 1 hole

Cover plate for call module and 1 socket.

Description	Code	Type
Cover plate with button (red) and 1 hole	EI 902 7	88881L3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Call module with push-button and 2 monitored sockets

Spare part for
73071D, 73073D

Call module,
connection terminal

Call module for call initiation with individual bed identification for connection to an electronic module or room terminal with bed databus.
Mobile call units such as pear and multiple push-buttons are connected to the 7-pin socket.
Additional socket (6-pin) for connection of a medical unit (e.g. diagnostic equipment) with alarm contact.
Connection of up to 8 call modules is possible. Monitoring of connected call units (call circuit monitoring).

Characteristics

- 1 call button
- 1 orientation/reassurance LED (red)
- 1 socket, 7-pin.
- 1 socket for diagnostic unit, 6-pin
- Control contact for microphone interfacing unit
- With bed identification

Description	Code	Type
Call module with push-button and 2 monitored sockets	EI 994 4	73073D3

Technical data	
Assembly	in flush-mounting box DIN 49073
Type of protection	IP20, if installed with its cover plate
Dimensions	L: 71 mm H: 71 mm D 25 mm (installation depth)

Accessories

Description	Code	Type
Cover plate with button (red) and 2 sockets	EI 905 0	88881J3

Call module with call push-button and 2 monitored sockets

A single device encloses a call push-button and one or two auxiliary sockets (7-pin for handsets, 6-pin for diagnostic equipment). Call button with reassurance/orientation red LED; sockets with call circuit monitoring. The push-button does not require the Dummy connector if the 7-pin socket is not used.
Installation in flush-mounting box DIN 49073. To be completed with cover plate and frame.
Protection class IP40.

Characteristics

- 1 call button
- 1 orientation/reassurance LED (red)
- 1 socket, 7-pin.
- 1 socket for diagnostic unit, 6-pin

Description	Code	Type
Call module with call push-button and 2 monitored sockets	EI 719 5	73075B

Technical data	
Assembly	in flush-mounting box, DIN 49073
Type of protection	IP40 if installed with appropriate cover plate
Dimensions	L: 71 mm H: 71 mm D 25 mm (installation depth)

Accessories

Description	Code	Type
Cover plate with call button (red) and 2 sockets	EI 905 0	88881J3

Cover plate with button (red) and 2 holes

Cover plate for call module.

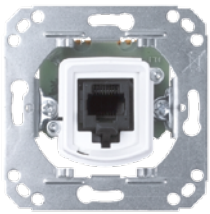
Description	Code	Type
Cover plate with button (red) and 2 holes	EI 905 0	88881J3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Auto-release plug system - A Coded



Auto-release plug system - A-coded for connecting pear and multiple push-buttons with auto-release plug (Version x4), suitable for DIN 49073 combined flush-mounting boxes.

Description	Code	Type
Module for auto-release plug system - A Coded	EI 731 0	74189A

Technical data	
Assembly	in flush-mounting box, DIN 49073
Type of protection	IP40 if installed with appropriate cover plate
Dimensions	L: 71 mm H: 71 mm D 25 mm (installation depth)

Accessories

Description	Code	Type
Cover plate for auto-release plug system	EI 743 5	88910N3

Cover plate for auto-release plug system

Cover plate for auto-release plug system - A Coded (Item No. 74189A).

Description	Code	Type
Cover plate for auto-release plug system	EI 743 5	88910N3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Module for auto-release plug system

Module for auto-release plug system. If the plug is deactivated from the socket a normal call is automatically activated. Suitable for N.O. and N.C. circuits
Installation in flush-mounting box DIN 49073.

Description	Code	Type
Module for auto-release plug system	EI 850 8	74199A

Technical data	
Assembly	in flush-mounting box, DIN 49073
Type of protection	IP40 if installed with appropriate cover plate
Dimensions	L: 71 mm H: 71 mm D 25 mm (installation depth)

Accessories

Description	Code	Type
Cover plate for auto-release plug system (74199A)	EI 851 6	88880D3

Cover plate for auto-release plug system (74199A)

Description	Code	Type
Cover plate for auto-release plug system (74199A)	EI 851 6	88880D3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Call module

Similar to 73073D3, without 7-pin and 6-pin sockets. Optional connection to an external call device (e.g. auto-release plug system).

Characteristics

- 1 call button
- 1 orientation/reassurance LED (red)
- Control contact for microphone interfacing unit
- One connection for external call device (e.g. auto-release plug system).
- With bed identification

Spare part for
73071F, 73073F

Description	Code	Type
Call module	EI 996 9	73073F3

Call module,
connection terminal

Technical data	
Assembly	in flush-mounting box, DIN 49073
Type of protection	IP20, if installed with its cover plate
Dimensions	L: 71 mm H: 71 mm D 25 mm (installation depth)

Accessories

Description	Code	Type
Cover plate with call button (red) and call module	EI 898 7	88881K3

Cover plate with button (red)

Cover plate for call module (red).

Description	Code	Type
Cover plate with button (red)	EI 898 7	88881K3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Call button

Call push-button suitable for NO and NC circuits.
Call push-button with red LED for reassurance/orientation. Installation in flush-mounting box DIN 49073. To be completed with cover plate, available in nurse call and doctor call versions.

Characteristics

- 1 call button
- 1 orientation/reassurance LED (red)

Description	Code	Type
Call button	EI 773 2	73022A3

Technical data	
Assembly	in flush-mounting box, DIN 49073
Type of protection	IP40 if installed with appropriate cover plate
Dimensions	L: 71 mm H: 71 mm D 25 mm (installation depth)

Accessories

Description	Code	Type
Cover plate with call button (red)	EI 869 8	88881G3
Cover plate with push-button (blue) for doctor call	EI 870 6	88881D3

Cover plate with call push-button - red

Cover plate with a call button (red).

Description	Code	Type
Cover plate with call button - red	EI 869 8	88881G3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Cover plate with push-button - blue - for doctor call

Cover plate with blue push-button for doctor call.

Description	Code	Type
Cover plate with push-button - blue - for doctor call	EI 870 6	88881D3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Cancel push-button - PR1

Cancel push-button with flush mount supporting ring and expanding/retaining clamps for flush-mounting boxes. Cancel push-button for NO and NC circuits. With signalling LED and acoustic signal for call transfer. Installation in flush-mounting box DIN 49073.

Characteristics

- 1 button for cancel function
- 1 LED reminder lamp (green)
- 1 Sound generator for call forwarding

Description	Code	Type
Cancel push-button - PR1 -	EI 884 7	73642C

Technical data	
Assembly	in flush-mounting box, DIN 49073
Type of protection	IP40 if installed with appropriate cover plate
Dimensions	L: 71 mm H: 71 mm D 25 mm (installation depth)

Accessories

Description	Code	Type
Cover plate with cancel push-button (green)	EI 885 4	88881H3

Cover plate with push-button - green

Description	Code	Type
Cover plate with push-button - green	EI 885 4	88881H3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Cancel push-button - PR 2

Cancel push-button with flush mount supporting ring and expanding/retaining clamps for flush-mounting boxes.. Cancel push-button for NO and NC circuits. With signalling LED and acoustic signal for call transfer. Installation in flush-mounting box DIN 49073.

Characteristics

- 1 push-button for cancellation function
- 1 LED reminder lamp (green)
- 1 Sound generator for call forwarding

Description	Code	Type
Cancel push-button - PR 2 -	EI 886 2	73642D

Technical data	
Assembly	in flush-mounting box, DIN 49073
Type of protection	IP40 if installed with appropriate cover plate
Dimensions	L: 71 mm H: 71 mm D 25 mm (installation depth)

Accessories

Description	Code	Type
Cover plate with cancel push-button (yellow)	EI 673 4	88881M3

Cover plate with push-button - yellow

Description	Code	Type
Cover plate with push-button - yellow	EI 673 4	88881M3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Call/Cancel push-button

Cancel push-button with flush mount supporting ring and expanding/retaining clamps for flush-mounting boxes.
Device containing the call and cancel push-buttons, suitable for NO and NC circuits.
With reassurance/orientation red LED, green signalling LED and acoustic signal for call transfer.
Installation in flush-mounting box DIN 49073. To be completed with cover plate and frame.
Protection class IP40.

Characteristics

- 1 push-button for cancel and presence function
- 1 LED reminder lamp (green)
- 1 Sound generator for call forwarding
- 1 push-button for call function
- 1 orientation/reassurance LED (red)

Description	Code	Type
Call/Cancel push-button	EI 723 7	73642B3

Technical data	
Assembly	in flush-mounting box, DIN 49073
Type of protection	IP40 if installed with appropriate cover plate
Dimensions	L: 71 mm H: 71 mm D 25 mm (installation depth)

Accessories

Description	Code	Type
Cover plate with push-buttons (red and green)	EI 883 9	88882A3

Cover plate with push-buttons - red and green

Description	Code	Type
Cover plate with push-buttons - red and green	EI 883 9	88882A3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Cancel push-button -PR 1/PR 2-

Cancel push-button with flush mount supporting ring and expanding/retaining clamps for flush-mounting boxes. Device containing the 2 cancel push-buttons, suitable for NO and NC circuits. With 2 signalling LEDs (yellow and green) and acoustic signal for call transfer. Installation in flush-mounting box DIN 49073. To be completed with cover plate and frame. Protection class IP40.

Characteristics

- 2 buttons for cancel function
- 2 LED reminder lamps (green and yellow)
- 1 Sound generator for call forwarding

Description	Code	Type
Cancel push-button -PR 1/PR 2-	EI 888 8	73642E

Technical data	
Assembly	in flush-mounting box, DIN 49073
Type of protection	IP40 if installed with appropriate cover plate
Dimensions	L: 71 mm H: 71 mm D 25 mm (installation depth)

Accessories

Description	Code	Type
Cover plate with 2 cancel push-buttons (green and yellow)	EI 889 6	88882B3

Cover plate with 2 cancel push-buttons (green and yellow)

Description	Code	Type
Cover plate with 2 cancel push-buttons (green and yellow)	EI 889 6	88882B3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Call unit with pull cord

For installation in bathroom/WC. Suitable for NC circuits. red reassurance LED;
2 m PVC cord with red knob. Installation in flush-mounting box DIN 49073. To be completed with cover plate and frame. Protection class IP54.

Characteristics

- 2 m PVC cord with red ABS knob
- 1 reassurance LED (red)

Description	Code	Type
Call unit with pull cord	EI 713 8	70045A3

Technical data	
Assembly	in flush-mounting box, DIN 49073
Type of protection	IP40 if installed with appropriate cover plate
Material	ABS
Version	for system with normally closed circuit
Dimensions	L: 71 mm H: 71 mm D 25 mm (installation depth)

Accessories

Description	Code	Type
Cover plate for call switch with pull cord	EI 683 3	88880A3

Cover plate for call switch with pull cord

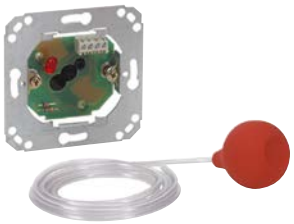
Description	Code	Type
Cover plate for call switch with pull cord	EI 683 3	88880A3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Pneumatic call push-button



For installation in bathroom/WC. Suitable for NO and NC circuits. Red reassurance LED; 2 m hose pipe made of isolating material, ending with rubber pneumatic actuator. Installation in flush-mounting box DIN 49073. To be completed with cover plate and frame. Protection class IP54.

Characteristics

- 4 m insulating plastic tube and rubber ball
- 1 reassurance LED (red)

Description	Code	Type
Pneumatic call push-button	EJ 500 8	70006D

Technical data	
Assembly	in flush-mounting box, DIN 49073
Type of protection	IP40 if installed with appropriate cover plate
Weight	approx. 193 g
Version	for system with normally closed and open circuit
Dimensions	L: 71 mm H: 71 mm D 40 mm (installation depth)

Accessories

Description	Code	Type
Cover plate for pneumatic call push-button	EI 680 9	88880C3

Cover plate for pneumatic call push-button

Description	Code	Type
Cover plate for pneumatic call push-button	EI 680 9	88880C3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Selector for radio programs

Radio programs selector with flush-mounted supporting plate and expanding/retaining clamps for flush-mounting boxes. For the selection of 5 radio programs and switching off. Installation in flush-mounting box DIN 49073. To be completed with cover plate and frame.

Characteristics

- 1 programs selector for 5 radio programs

Description	Code	Type
Selector for radio programs	EJ 525 5	73120A

Technical data	
Assembly	in flush-mounting box, DIN 49073
Type of protection	IP40 if installed with appropriate cover plate
Dimensions	L: 71 mm H: 71 mm D 25 mm (installation depth)

Accessories

Description	Code	Type
Cover plate for programs selector	EI 745 0	88912H3

Cover plate for programs selector

Description	Code	Type
Cover plate for programs selector	EI 745 0	88912H3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Radio volume control module and headphones plug

Radio unit with volume control and headphones plug with flush mount supporting plate and expanding/retaining clamps for flush-mounting boxes. For connection to a dynamic headphone to listen to radio programs. With volume control and jack plug for headphones connection. Installation in flush-mounting box DIN 49073. To be completed with cover plate and frame.

Characteristics

- 1 volume control
- 1 plug for dynamic headphone connection

Description	Code	Type
Radio volume control module and headphones plug	EI 864 9	73120H1

Technical data	
Assembly	in flush-mounting box, DIN 49073
Type of protection	IP40 if installed with appropriate cover plate
Dimensions	L: 71 mm H: 71 mm D 25 mm (installation depth)

Accessories

Description	Code	Type
Cover plate for radio unit	EI 746 8	88912K3

Cover plate for volume control and headphones plug

Description	Code	Type
Cover plate for volume control and headphones plug	EI 746 8	88912K3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 68 mm H: 68 mm

Accessories

Description	Code	Type
Single mounting frame	EI 998 5	88914A3
Double mounting frame	EI 999 3	88914B3
Triple mounting frame	EI 871 4	88914C3

Fixing clips set for 10 call devices

Claw set kit with 20 fixing hooks for 10 call units (e.g. 73073xx, 73075x, 70045xx, 70046xx).

Description	Code	Type
Fixing clips set for 10 call units	On request	73073Z1

Handset IP 67 (NC) 2.5 m

Pear push-button with auto-release plug in ergonomic housing (IP 67) with antimicrobial surface, A-coded auto-release connector plug with 2.5 m connection lead. Easy to operate push-button with integrated orientation lamp. N.C. logic

Description	Code	Type
Handset IP 67 (NC) 2.5 m	EI 774 0	74154B4

Technical data	
Material	ABS
Colour	white, similar to RAL 9016
Version	for systems with normally closed circuit
Dimensions	L: 140 mm L: 50 mm D: 26 mm

Handset IP 67 (NC) 2.5 m

Multiple push-button with 7-pin plug in ergonomic housing (IP 67) with antimicrobial surface, with 2.5 m connection lead. Easy to operate push-button with integrated orientation lamp. N.C. logic

Description	Code	Type
Keypad IP 67 (NC) 2.5 m	On request	74154A1

Technical data	
Material	ABS
Colour	white, similar to RAL 9016
Version	for systems with normally closed circuit
Dimensions	L: 140 mm L: 50 mm D: 26 mm

Handset 2+1 IP 67 (NC) 2.5 m

Multiple push-button in ergonomic housing (IP 67) with antimicrobial surface, 7-pin plug with 2.5 m connection lead. Easy to operate push-button with integrated orientation lamp as well as 2 light buttons. N.C. logic

Description	Code	Type
Handset 2+1 IP 67 (NC) 2.5 m	EI 775 7	74154C1

Technical data	
Material	ABS
Colour	white, similar to RAL 9016
Version	for systems with normally closed circuit
Dimensions	L: 140 mm L: 50 mm D: 26 mm

Handset 2+1 IP 67 (NC) 2.5 m

Same as 74154C1, but with A-coded auto-released plug. N.C. logic

Description	Code	Type
Handset 2+1 IP 67 (NC) 2.5 m	EI 776 5	74154C4

Technical data	
Material	ABS
Colour	white, similar to RAL 9016
Version	for system with normally closed circuit
Dimensions	L: 140 mm L: 50 mm D: 26 mm

Handset 5+1 IP 67 (NC) 2.5 m - Double Plug

Handset in ergonomic housing (IP 67) with antimicrobial surface, auto-release connector plug with 2.5 m connection lead. Easy to operate push-button with integrated orientation lamp, 2 light buttons and 3 additional function keys. N.C. logic

Description	Code	Type
Handset 5+1 IP 67 (NC) 2.5 m - Double Plug	EI 777 3	74155C3

Technical data	
Material	ABS
Colour	white, similar to RAL 9016
Version	for systems with normally closed circuit
Dimensions	L: 140 mm L: 50 mm D: 26 mm

Handsets

For nurse call and switching on lights. For the connection models are available with 7-pin connectors or auto-release plug system for use with electronic/device interface for “A-CODED” standard auto-release connection). 2 m long connection cable, variable loop forming and pull relief (different lengths available).

Technical data	
Material	ABS
Colour	white, similar to RAL 9016
Version	for systems with normally closed circuit
Dimensions	L: 110 mm L: 40 mm D: 18 mm

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Pear push-button (NCC) 7-pin plug, 3 m

Pear push-button with 7-pin plug.

Characteristics

- 1 call button (red) with nursing staff symbol
- 1 orientation/reassurance LED (red)

Description	Code	Type
Pear push-button (NCC) 7-pin plug, 3 m	EJ 533 9	74141B1

—

Pear push-button (NCC) 7-pin plug, 5 m

Same as 74141B1, but with 5 m connection cable.

Description	Code	Type
Pear push-button (NCC) 7-pin plug, 5 m	On request	74141C1

—

Pear push-button (NCC) auto-release plug, 3 m

Pear push-button with auto-release plug.

Characteristics

- 1 call button (red) with nursing staff symbol
- 1 orientation/reassurance LED (red)

Description	Code	Type
Pear push-button (NCC) auto-release plug, 3 m	On request	74141B3

—

Pear push-button (NCC) auto-release plug, 5 m

Same as 74141B3, but with 5 m connection cable.

Description	Code	Type
Pear push-button (NCC) auto-release plug, 5 m	On request	74141C3

—

Handset (NCC) auto-release plug - A Coded - 3 m

Handset with auto-release plug, A Coded.

Characteristics
- 1 call button (red) with nursing staff symbol, configured for call circuit monitoring.
- 1 orientation/reassurance LED (red)

Description	Code	Type
Handset (NCC) auto-release plug - A Coded - 3 m	EI 727 4	74141B4

Used in combination with Item No. 74189A

—

Handset (NCC) auto-release plug - A Coded - 5 m

Same as 74141B4, but with 5 m connection cable.

Description	Code	Type
Handset (NCC) auto-release plug - A Coded - 5 m	On request	74141C4

—

Handset (NCC), 7-pin plug, 1 light button, 3 m

Multiple push-button with 7-pin plug.

Characteristics
- 1 call button (red) with nursing staff symbol
- 1 orientation/reassurance LED (red)
- 1 light button (yellow)

Description	Code	Type
Handset (NCC), 7-pin plug, 1 light button, 3 m	EJ 537 0	74151B1

—

Handset (NCC), 7-pin plug, 2 light buttons, 3 m

Handset with 7-pin plug.

Characteristics
- 1 call button (red) with nursing staff symbol
- 1 orientation/reassurance LED (red)
- 2 light buttons (yellow) (separate circuit)

Description	Code	Type
Handset (NCC), 7-pin plug, 2 light buttons, 3 m	EJ 508 1	74153B1

—

Handset (NCC), 7-pin plug, 2 light buttons, 5 m

Same as 74153B1, but with 5 m connection table.

Description	Code	Type
Pear push-button (NCC) auto-release plug, 5 m	On request	74153C1

—

Handset (NCC) auto-release plug, 3 m

Multiple push-button with auto-release plug.

Characteristics

- 1 call button (red) with nursing staff symbol, configured for call circuit monitoring.
- 1 orientation/reassurance LED (red)
- 2 light buttons (yellow) (separate circuit)

Description	Code	Type
Handset (NCC) auto-release plug, 3 m		74153B3

—

Handset (NCC), auto-release plug, 2 light buttons, 3m

Same as 74153B3, but with 5 m connection cable.

Description	Code	Type
Handset (NCC), auto-release plug, 2 light buttons, 3m		74153C3

—

Handset (NCC), auto-release plug, - A coded, 2 light buttons, 3 m

Used in combination with Item No. 74189A

Handset with auto-release plug, A Coded.

Characteristics

- 1 call button (red) with nursing staff symbol
- 1 orientation/reassurance LED (red)
- 2 light buttons (yellow) (separate circuit)

Description	Code	Type
Handset (NCC), auto-release plug - A coded, 2 light buttons, 3 m	EI 730 2	74153B4

—

Handset (NCC), auto-release plug, - A coded, 2 light buttons, 5 m

Used in combination with Art. No. 74189A

Same as 74153B4, but with 5 m connection cable.

Description	Code	Type
Handset (NCC), auto-release plug - A coded, 2 light buttons, 5 m		74153C4

—

Handset (NO), 7-pin plug, 2 light buttons, 3 m

Handset with 7-pin plug, 2 light commands with NO logic.

Characteristics

- 1 call button (red) with nursing staff symbol
- 1 orientation/reassurance LED (red)
- 2 light buttons (yellow) (separate circuit)

Description	Code	Type
Handset (NO), 7-pin plug, 2 light buttons, 3 m	EJ 014 0	74152B2

—

Handset (NO), auto-release plug, 2 light buttons, 3m

Handset with auto-release plug, without lights command with NO logic

Characteristics

- 1 call button (red) with nursing staff symbol, configured for call circuit monitoring.
- 1 orientation/reassurance LED (red)
- 2 light buttons (yellow) (separate circuit)

Description	Code	Type
Handset (NO), auto-release plug, 2 light buttons, 3m	EJ 015 7	74140B1

Handsets PH99

Can be used in combination with the bed module 74188A1

2 cable fixing clips for mobile call units (attached to trapezoid bar)

The user-friendly control unit is suitable for actuating calls, selecting radio and TV channels and switching the light on/off as well as for discreet communication with the nursing staff. It is equipped with a clearly structured button panel and orientation/reassurance lamp on the call push-button.
Allows the patient to make a nursing staff call and activate voice communication with the staff; also offers the possibility of tuning into radio and TV programs. The patient handset is equipped with a speaker and a 3.5 mm jack earphone connection for radio and TV playback. Its surface is easy to clean and water-proof (IP 54).
The hook on the wall or at the bedside table serves as a handset retainer. The handset is connected to the bed module via an auto-release plug. If the connector is disconnected from the socket, the normal call function is automatically activated, which can be deactivated by means of the combination of keys.

Characteristics

Components:

- speaker
- microphone
- call button with orientation light
- 4 reassurance LEDs (red)
- 2 light buttons
- key for selecting 4 radio programs
- key for switching TV ON/OFF
- key for selecting TV programs
- LED for indicating selected programs
- 2 keys (+ and -) for volume adjustment
- socket for connecting headphone

Description	Code	Type
Handsets PH99	EI 709 6	74133A1

Technical data	
Assembly	tube on bedside table/wall
Type of protection	IP54
Material	PVC + ABS - GF20
Colour	white, similar to RAL 9016, (enclosure)
Weight	approx. 260 g
Dimensions	L: 206 mm L: 71 mm H: 27 mm

Accessories

Description	Code	Type
Bracket for patient handset/terminal		74131B1
Cable fixing spring		74096D
Headphone with right-angle plug		89760C

Cable fixing clip

Cable fixing clip for patient handsets and patient terminal.

Description	Code	Type
Cable fixing clip	On request	74096D

10 pcs

Bracket for keypad/patient terminal

Bracket to deposit the patient handset on the wall or at the bedside table.

Description	Code	Type
Bracket for patient handset/terminal	EI 179 2	74131B1

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016

Noise threshold call unit

Only 1 unit per call circuit!

Makes it possible to activate a call when a preset noise level is exceeded both as regards intensity and duration without the need to press a button. The apparatus is connected to a device with 7-pin auxiliary socket by means of a 2m long cable, fitted with 7-pin connector.

Characteristics

- 1 microphone
- 1 call button
- 1 button to block calls for noise threshold testing
- 2 LED indicator lamps
- 2 m connection cable with 7-pole DIN plug

Description	Code	Type
Noise threshold call unit	EI 860 7	73300A

Technical data	
Colour	black, similar to RAL 9011
Dimensions	L: 155 mm H: 95 mm D: 38 mm

Pneumatic control button (NC) 7-pin plug

Suitable for use in bathroom/WC, it consists of 2 m long flexible tube made of isolating material, with pneumatic rubber actuator at one end and 7-pin connector at the other end. A fixing clip is applied on the tube.

Characteristics

- 1.9 m insulation material tube, with rubber ball and retaining clip.

Description	Code	Type
Pneumatic control button (NC) 7-pin plug	EI 140 4	70007A

Technical data	
Operating Voltage	24 V D.C.
Colour	white
Version	for system with normally closed circuit

Pneumatic breath push-button (NC) 7-pin plug (NCC) DIN plug

Pneumatic breath call unit with 7-pin connection plug. It is suitable for immobile patients. The call is actuated pneumatically by forcefully breathing into the unit. The unit is connected to the nurse call system via a 7-pin auxiliary plug contact.

Description	Code	Type
Pneumatic breath push-button (NC) 7-pin plug (NCC) DIN plug	EI 781 5	70007B

Breath call unit, replacement tubes

Technical data	
Operating Voltage	24 V DC
Version	for system with normally closed circuit

Accessories

Description	Code	Type
Spare tubes for pneumatic call unit		70005BZ

Spare tubes for pneumatic call unit

Accessories for breath call unit 70005B/70007B.

Description	Code	Type
Spare tubes for pneumatic breath call unit	EI 783 1	70005BZ

12 spare tubes with filter

Devices for installation

Devices for the installation

Components for the installation

Halogen-free system cable, coil for 500 m cables

coil for 500 m cables

Halogen-free system cable (500 m cable drum) for power supply, time multiplex and speech transmission, 6-core.

Description	Code	Type
Halogen-free system cable, coil for 500 m cables	EI 748 4	89734AH

Technical data	
Cable	Li2Y 2x1.5 mm + I2Yv 2x2x0.6 (ST) HM2
Fire load	1200 kJ/m

Halogen-free system cable, coil for 100 m cables

coil for 100 m cables

Halogen-free system cable (coil for 100 m cable) for power supply, time multiplex and speech transmission, 6-core.

Description	Code	Type
Halogen-free system cable, coil for 100 m cables	EI 997 7	89734B

Technical data	
Cable	Li2Y 2x1.5 mm + I2Yv 2x2x0.6 (ST) HM2
Fire load	1200 kJ/m

Halogen-free system cable, coil for 100 m cables

coil for 100 m cables

Halogen-free system cable (coil for 100 m cable) for power supply, time multiplex and speech transmission, 6-core.

Description	Code	Type
Halogen-free system cable, coil for 100 m cables	ED 065 8	CV KNX 4 -100

Technical data	
Cable	Li2Y 2x1.5 mm + I2Yv 2x2x0.6 (ST) HM2
Fire load	1200 kJ/m

Halogen-free system cable, coil for 500 m cables

coil for 500 m cables

Halogen-free system cable (coil for 500 m cable) for power supply, time multiplex and speech transmission, 6-core.

Description	Code	Type
Halogen-free system cable, coil for 500 m cables	ED 066 6	CV KNX 4 -500

Technical data	
Cable	Li2Y 2x1.5 mm + I2Yv 2x2x0.6 (ST) HM2
Fire load	1200 kJ/m

Halogen-free system cable, 100 m bundle

100 m bundle

Halogen-free system cable (100 m bundle) for power supply, time multiplex and speech transmission, 6-core.

Description	Code	Type
Halogen-free system cable, 100 m bundle	On request	89734AJ

Technical data	
Compartment	Li2Y 2x1.5 mm + I2Yv 2x2x0.6 (ST) HM2
Fire load	1200 kJ/m

Single mounting frame

Description	Code	Type
Single mounting frame	EI 998 5	88914A3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 81 mm H: 81 mm

Double mounting frame

Description	Code	Type
Double mounting frame	EI 999 3	88914B3

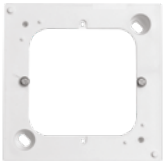
Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 81 mm H: 152 mm

Triple mounting frame

Description	Code	Type
Triple mounting frame	EI 871 4	88914C3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 81 mm H: 223 mm

Surface-mounting base (single)



Description	Code	Type
Surface-mounting base (single)	EI 674 2	88915A3

Technical data	
Material	PVC + ABS - FR
Colour	white, similar to RAL 9016
Dimensions	L: 81 mm H: 81 mm D: 20.2 mm

Surface-mounting base (double)

Description	Code	Type
Surface-mounting base (double)	On request	88915C3

Technical data	
Material	galvanised steel plate
Colour	white, similar to RAL 9016
Dimensions	L: 85 mm H: 156 mm D: 20.1 mm

Surface-mounting base (triple)

Description	Code	Type
Surface-mounting base (triple)	On request	88915D3

Technical data	
Material	galvanised steel plate
Colour	white, similar to RAL 9016
Dimensions	L: 85 mm H: 227 mm D: 30 mm

Flush-mounting box

DIN 49073 box for all installation units with expanding/retraining clamps.

Description	Code	Type
Flush-mounting box	EK 296 1	105502

Technical data	
Material	layer
Dimensions	Ø: 58 mm D: 40 mm

Backbox in cavity wall

Backbox for cavity wall installation in wooden, plaster and other cavity walls.

Description	Code	Type
Backbox for cavity wall installation	EI 903 5	18971B

Technical data	
Material	thermoplastic, flame-retardant
Dimensions	Ø: 71 mm D: 65 mm

Self-threading screws

Description	Code	Type
Self-threading screws	EK 298 7	247115

RS232 serial connection cable

Null modem cable for connecting a customer PC to the Clinos Phon call and presence log.

Description	Code	Type
RS232 serial connection cable	On request	7608944

Technical data	
Cable	5 m (with Sub D socket, 9-pin)

White LED

Replacement LED lamp for room electronic module (Item No. 72572D2) and room signal lamps (Item No. 72569C/D).

Description	Code	Type
White LED	88894AL	CLSL0001

5 pcs

Technical data	
Colour	white

Red LED

Similar to 88894AL, but red.

Description	Code	Type
Red LED	88894BL	CLSL0002

5 pcs

Technical data	
Colour	red

Green LED

Similar to 88894AL, but green.

Description	Code	Type
Green LED	88894CL	CLSL0003

5 pcs

Technical data	
Colour	green

Yellow LED

Similar to 88894AL, but yellow.

Description	Code	Type
Yellow LED	88894DL	CLSL0004

5 pcs

Technical data	
Colour	yellow

Clinos Guard

Clinos Guard
Description of the System

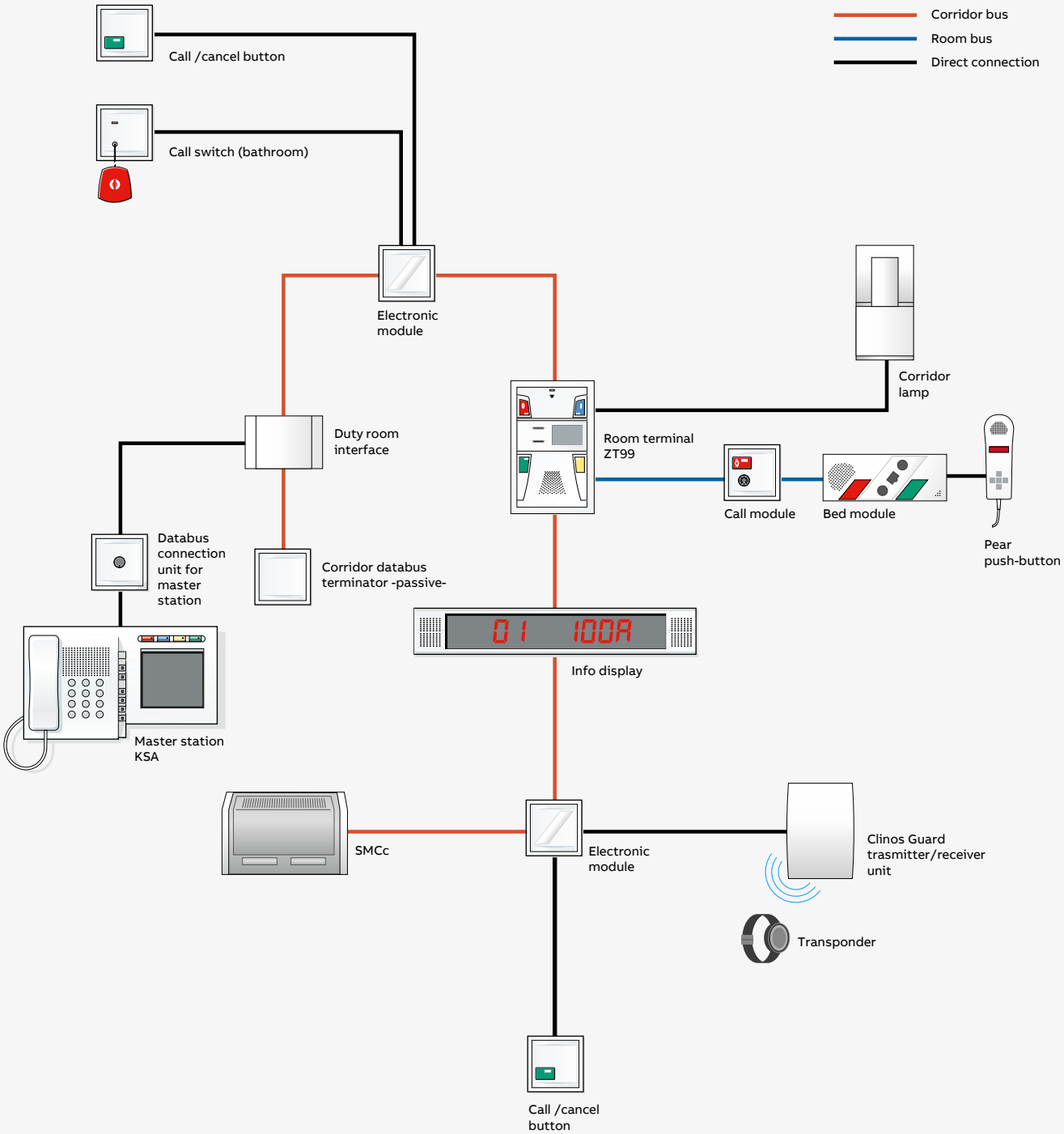
By using the Clinos Guard, the care system for people suffering from disorientation, the monitoring of such patients becomes much easier. Depending on the required protection goals, alarms are generated or protection devices are activated, if a patient wishes to leave the building without being accompanied by healthcare staff or if the patient wants to enter an area without permission.

Discrete but effective
Clinos Guard provides adequate care to those in need. The advantages of this system consist in the creation of protected virtual areas in which the patient, healthcare staff, visitors and other residents can move around freely without feeling confined. This contributes to improving the quality of life of patients while at the same time providing greater security. Moreover, the consequent reduction of the work load of healthcare staff improves the working environment to a considerable extent.

Safety first
Special attention has been paid to a highly reliable type of localisation. Active transponders with 3-D antenna coils are used to survey any wide spectrum area in complete safety. The use of different frequencies within the system makes it possible to obtain a high level of safety in transmission. On the one hand, the low passive frequency (125 kHz) of the transmitter/receiver allows minimum impact on the body and optimum regulation of the field, while on the other hand, a high operating frequency (868 MHz) allows quick reliable data transmission when the transponder is inside the protected sector. A special procedure in the transmitter/receiver regulates the reception field in fractions of a second, e.g. if large metallic objects are involved that may disturb the magnetic field and prevent safe reception, as compared to traditional procedures. Transponders for nurses and patients are different. They are available in different versions for different vectors and with safety catches that guarantee a high level of acceptance. The technology used makes safe working easier and increases the life of the monitored battery.

Application
In the simplest case, a receiver/transmitter that generates a low frequency, a spherical reception field with a radius of 3.5 metres (compact reader) or 7 metres (wide spectrum reader) is installed in the door zone. If required, additional antennas allow optimal upgrade of the structure. The transponders for patients and healthcare staff are assigned to the transmitter/receiver. If one of the transponders enters the field of reception, its ID code is transmitted. The ID code transmitted is then examined by the device. If a patient transponder is identified, a reaction is triggered; e.g. a call is activated in the connected nurse call system and, if required, the call is registered and reported to the department concerned, as defined in the predefined settings. The call can also be transmitted in the form of SMS, voice message, etc.. The call is not activated if a nurse transponder is identified with or without a patient transponder. Other actions can be assigned if necessary, e.g. the automatic closure of a door or the lift command. The system can also be used to protect the hardware and the bed logistics in addition to the personal safety aspect. Thanks to its modular structure, an expansion can be created with a PC for easy configuration and the network connection of individual units in a single system. Different areas of application can thus be conceived, from identification of movements (direct) to the implementation of specific applications for monitoring, identification and signalling.

Overview of the Clinos Guard system



Clinos Guard

Main components

"Universal V" Localiser/Receiver

Active transponder system with range adjustable to a radius of 3.5 metres.
Consists of an antenna (operating frequency 868 MHz, passive frequency 125 kHz), an assessment device with relay contacts (switchable), integrated alarms signalling device and 230 V power supply unit (integrated).
Can be expanded with a relay board to identify the zone and an additional external antenna (also by means of reproducer if necessary).

1 antenna (operating frequency 868 MHz, passive frequency 125 kHz)
1 assessment device with relay contacts (SPDT)
1 flush-mounting signal generator
1 230 V power supply unit (installed)

Description	Code	Type
"Universal V" Localiser/Receiver	On request	790P100

Technical data	
Dimensions	L: 250 mm H: 325 mm D: 63 mm

"Universal V IP64" Localiser/Receiver

Similar to 790P000, but has an external housing with anti-moisture protection IP 64.

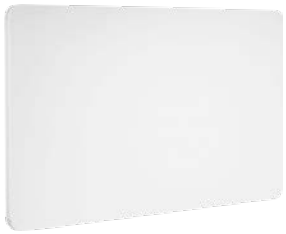
Description	Code	Type
"Universal V IP64" Localiser/Receiver	On request	790P103

Relay board - "V" Localiser/receiver

The compact long distance and in loop transmitters/receivers can be extended by relay boards to identify various persons and groups. Up to five persons or groups can be identified. For example, the outputs can be used for connection to the nurse call system to generate dedicated alarms in the corresponding station. In addition, generation of reader monitoring notification or even continuous transmission of the battery status is also possible.
Assignment of a patient transponder is done directly by means of the relay board.

Description	Code	Type
Relay board - "V" Localiser/receiver	On request	790P137

Auxiliary low frequency antenna (optional)



In addition to long distance transmitter/receiver. The auxiliary low frequency antenna must be used for fields exceeding 5.5 metres. It is found to be particularly suitable for adjusting the area of the receiver with special structural requirements such as large entrance doors.

Description	Code	Type
Auxiliary low frequency antenna (optional)	On request	790P031

Additional - compact antenna

Additional antenna to adjust the detection range (up to 3.5 m) with special architectonic requirements.

Description	Code	Type
Additional - compact antenna	On request	790P033

Clinos Guard
Transponder

Patient transponder with dummy clock

Patient transponder with unidimensional antenna and battery monitoring.
The bracelet can only be opened using a magnetic key kept in the custody of healthcare staff.

Description	Code	Type
Patient transponder with dummy clock	On request	790P121

Patient transponder clock

Patient transponder with unidimensional antenna and battery monitoring.
The bracelet can only be opened using a magnetic key kept in the custody of healthcare staff.

Description	Code	Type
Patient transponder clock	On request	790P122

Patient transponder alarm

Transponder bracelet for patients with emergency release outside the area of reception of a “Universal V” receiver/transmitter, the radius of which depends on the conditions of the building: maximum radius approx. 30 metres. Leather bracelet with typical buckle.

Description	Code	Type
Patient transponder alarm	On request	790P123

Transponder for nurse

Personal transponder with unidimensional antenna and battery monitoring. Limitations for call and call cancel. This type of transponder is not suitable as patient transponder.

Description	Code	Type
Transponder for nurse	On request	790P124

Clinos Guard
Accessories

Leather case

Leather case with magnetic buckle (white button) for patient transponder (790P010, 790P120) to be applied to clothing (e.g. to the belt) including accessories.

Description	Code	Type
Leather case	On request	790P050

Spare buckle

Complete additional magnetic buckle (white button)

Description	Code	Type
Spare buckle	On request	790P051

Spare bracelet with buckle

Spare bracelet for wrist transponder (part No. 790P11, 790P122).

Description	Code	Type
Spare bracelet with buckle	On request	790P052

Magnetic key

Magnetic key included in a packet for opening magnetic buckle (white button and bracelet). Only for nursing staff.

Description	Code	Type
Magnetic key	On request	790P053

Spare bracelet with buckle

Spare bracelet for transponder bracelet (part No. 790P12, 790P013, 790P121).

Description	Code	Type
Spare bracelet with buckle	On request	790P054

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