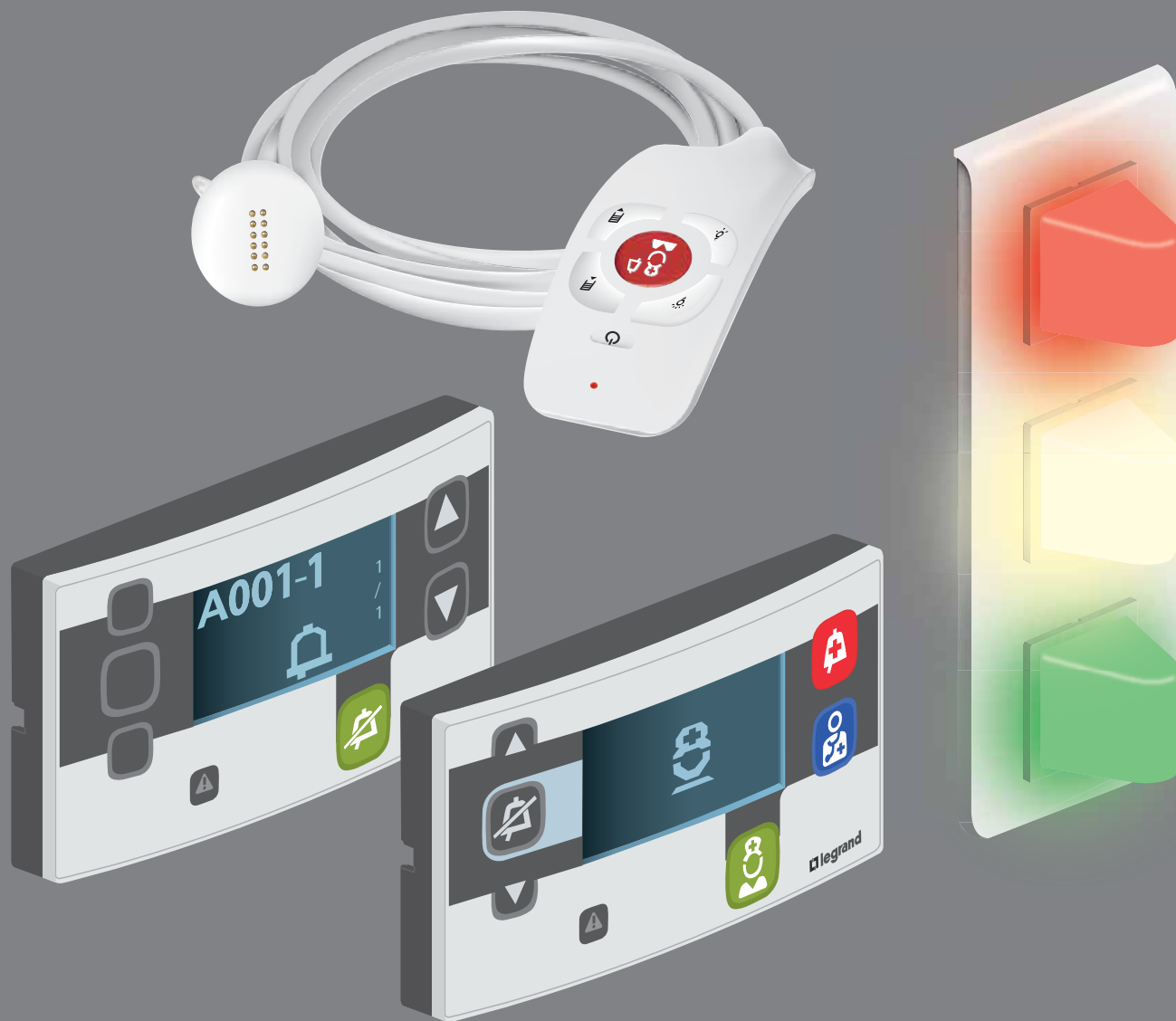


# BUS/SCS NURSE CALL SYSTEM



INSTALLATION AND USER GUIDE

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# Topics

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## • SPECIFICATION

Refer to pages 6 to 14.

## • DESIGN/DEFINITION

Refer to pages 58 to 79.

For traceability, refer to the guide for the software 0 766 18.

Pages 6 to 14 and 82 to 105: option of having wiring diagrams validated by Legrand.

## • INSTALLATION

- Electrician: refer to pages 6 to 14 and 82 to 105.

- Telephonist: refer to pages 147 to 151.

## • PROGRAMMING/CONFIGURATION

- In physical configuration (using configurators): refer to pages 106 to 115.

- In virtual configuration (software programming): refer to pages 116 to 141.

## • TRAINING

Refer to pages 58 to 79.

Standard training courses can be taken in our approved Innoval centres.

Project-specific training courses can be taken in our approved Innoval centres or on site.

## • COMMISSIONING AND ACCEPTANCE

### TESTING

- Commissioning: refer to pages 142 to 159.

- Acceptance testing: refer to pages 58 to 79.

## • OPERATION/SUPERVISION

Refer to pages 58 to 79.

For traceability, refer to the guide for the software 0 766 18 and page 152 to 157.

## • USE

Refer to pages 58 to 79 and memo sheet LE05065.

## • DIAGNOSTICS/TROUBLESHOOTING/ MAINTENANCE

Refer to pages 158 to 170.

## • PRODUCT DEVELOPMENTS

Refer to page 169.

## • SYSTEM MODIFICATION

- Diagrams: refer to pages 82 to 101.

- Physical configuration (using configurators): refer to pages 106 to 115.

- Virtual configuration (software programming): refer to pages 116 to 141.

- Operational check: refer to pages 58 to 79 and memo sheet LE05065.

## • REPLACING AN ELIOCAD SYSTEM

Refer to pages 102 to 105.

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# BUS/SCS installation principle

## DESCRIPTION OF THE SYSTEM ARCHITECTURE

### Fundamental rules to follow when installing the BUS/SCS nurse call system

Patient call system devices are associated with personal safety. They should therefore be installed by a qualified electrician, in strict accordance with the conditions of installation and the operating instructions.

A single protection device should be installed for the entire nurse call system (BUS, indicator and display unit power supply). If the entire installation is on the same bus (indicator power supply + BUS power supply), it is possible to install one protection device per department and to separate the departments using an extension Cat. No. 0 766 10 (providing galvanic isolation), not connecting the indicator power supply cable.

To ensure continuous operation during a mains failure, connect to a secure network (generator set and/or inverter). If there is a mains failure longer than 300 ms, all calls prior to the cut may be lost.

Power supplies should be distributed at equal distances along the whole length of the BUS.

The nurse call system complies with VDE 0834-1/0834-2 (DIN 41050) standards.

### EXAMPLE OF INSTALLATION

A department can have a maximum of 150 rooms.

A department can have an average of 50 rooms per power supply unit.

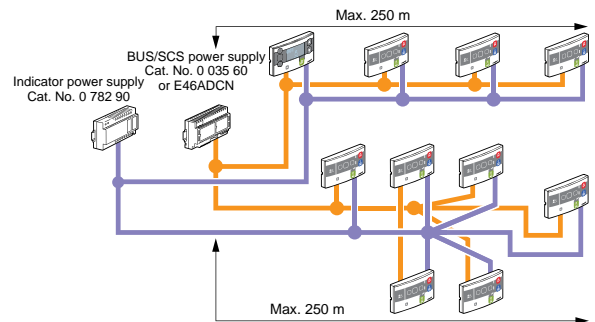
A building can have 14 floors (or 14 departments).

#### IMPORTANT

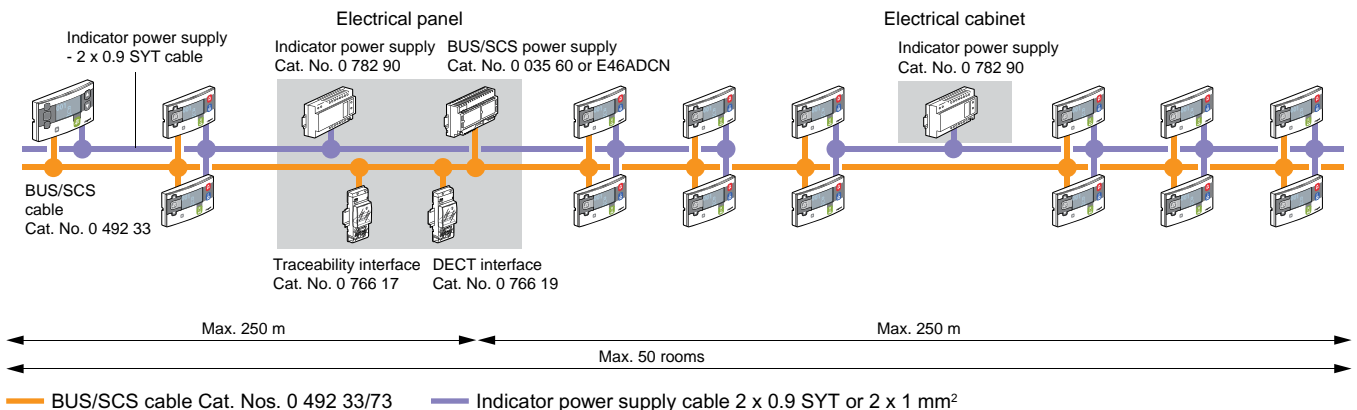
It is essential to install only one and only one main control unit (Cat. No. 0 766 11) per department.

### Installation in a star (recommended)

See section: "Example of wiring for maximum BUS lengths"



### Installation for a department (1 main control unit 0 766 11 max./department)



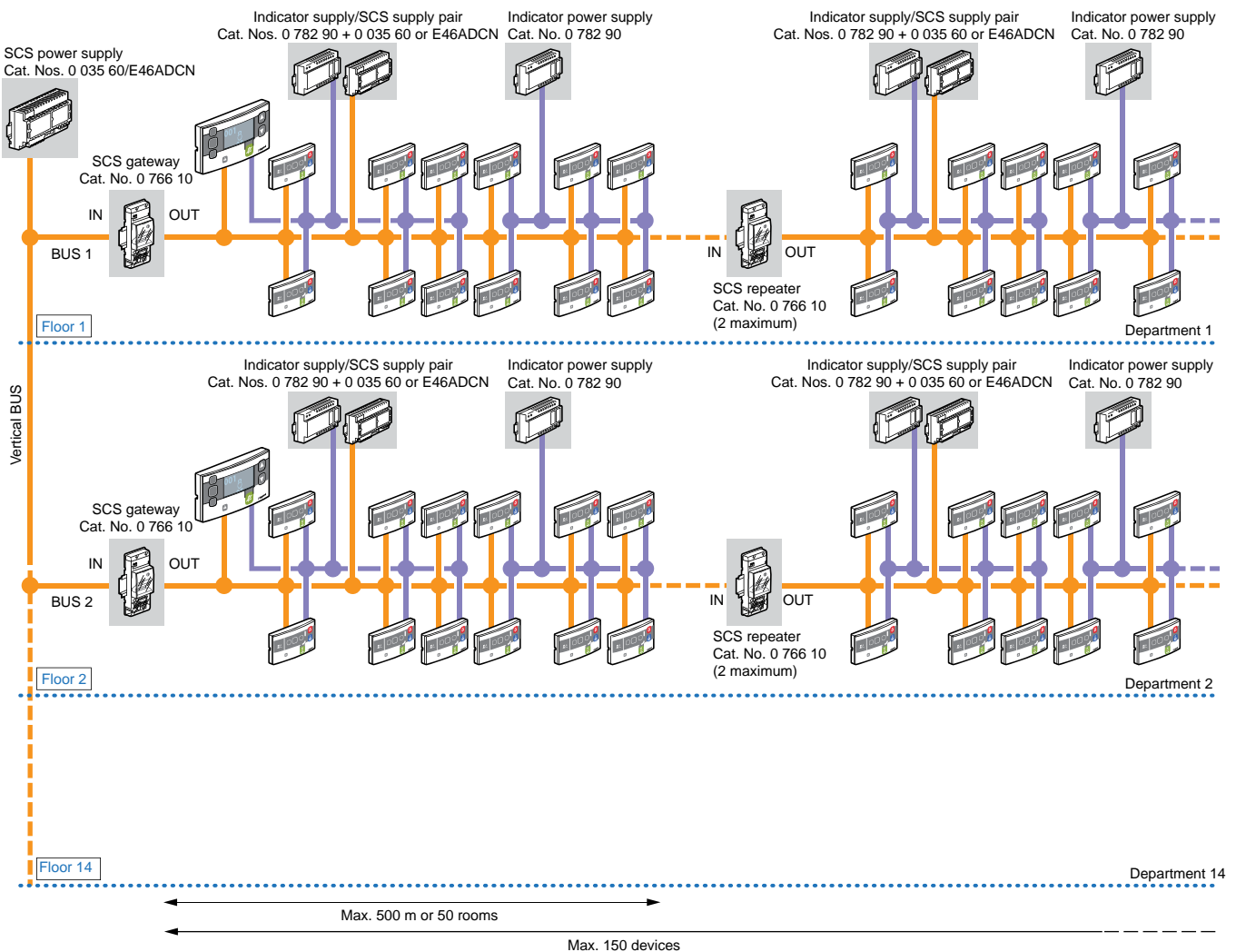
**⚠** The BUS/SCS and indicator cables must be placed in the ELV cable ducting (see NF C 15-100).

## INSTALLATION PRINCIPLE

### Installation within a building (1 department/floor)

1 main control unit 0 766 11 max./department

1 department max./floor

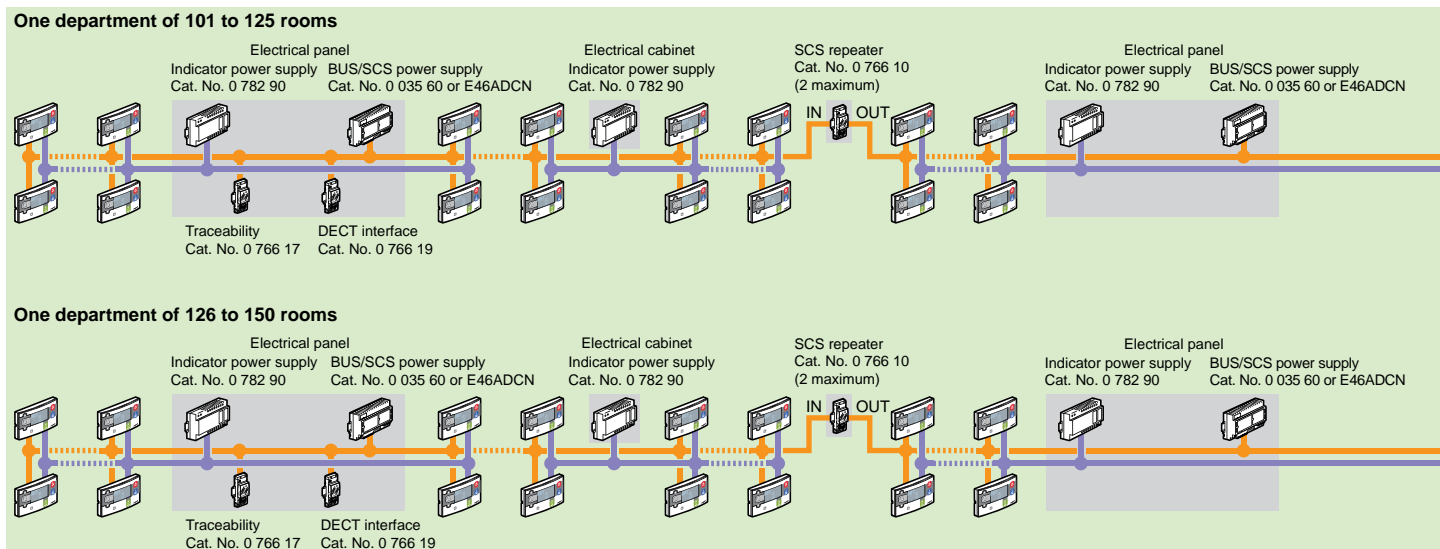
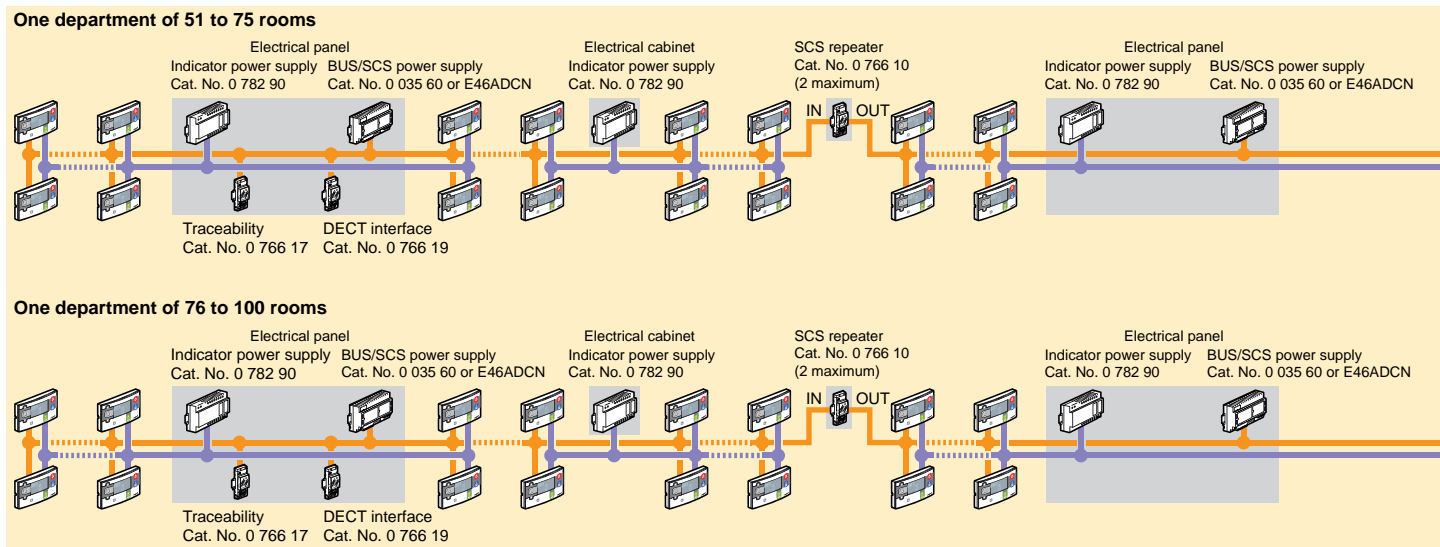
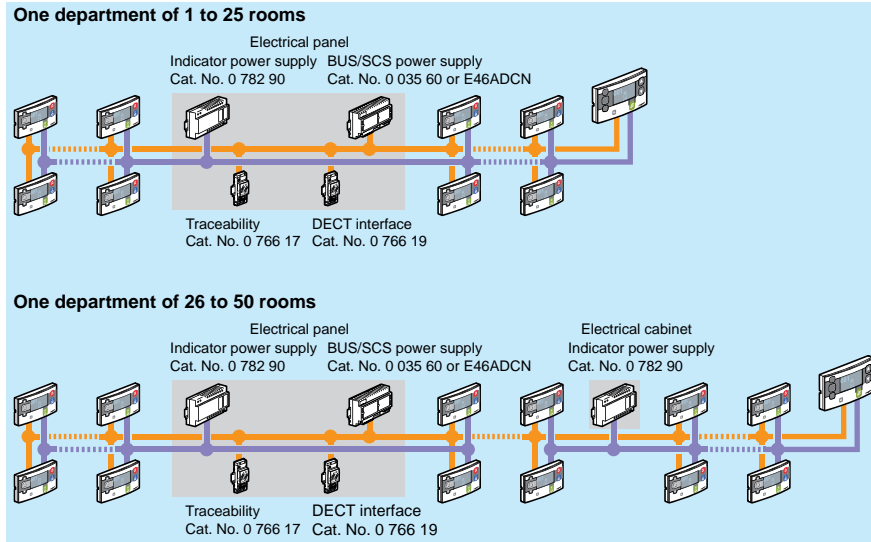


### IMPORTANT

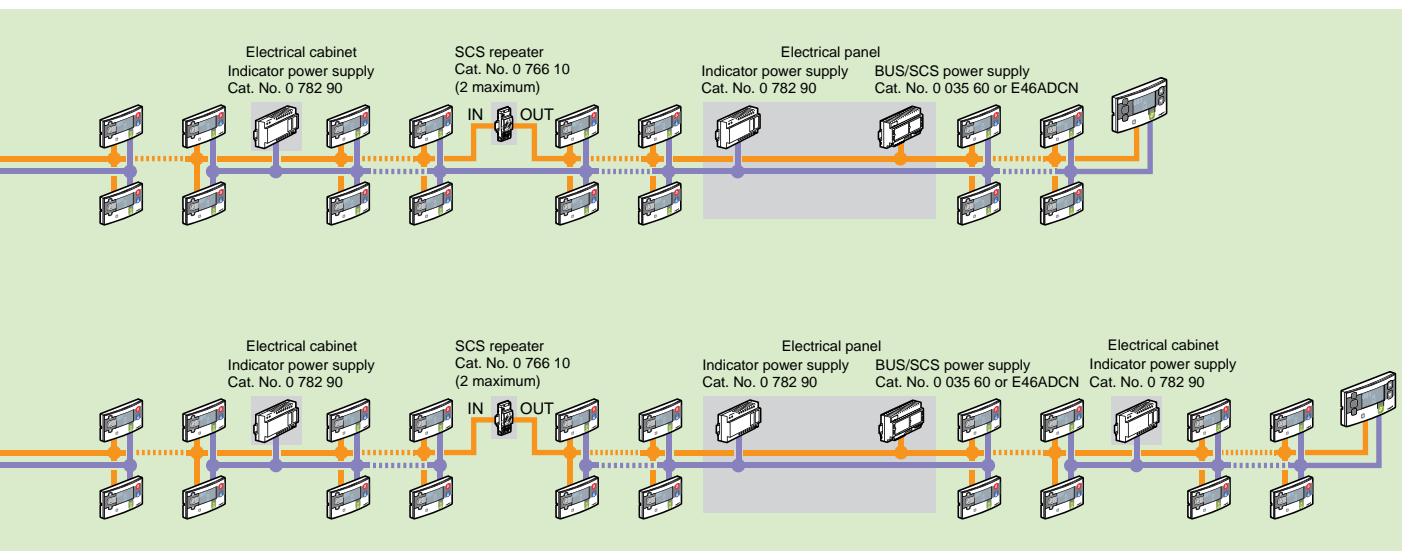
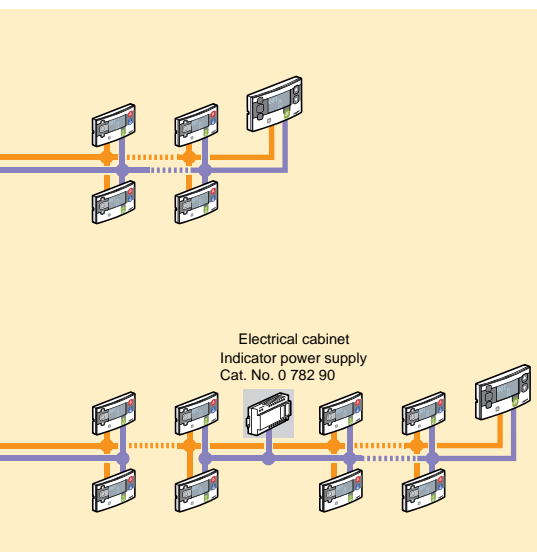
An installation can comprise a maximum of 14 control units (Cat. No. 0 766 11) connected on a single vertical BUS, a maximum of 14 departments in virtual configuration and a maximum of 10 departments in physical (or configurator) configuration.

# BUS/SCS installation principle (continued)

## INSTALLATION PRINCIPLES FOR A DEPARTMENT (INDEPENDENT DEPARTMENT)



- BUS/SCS cable Cat. Nos. 0 492 33/73
- Indicator power supply cable 2 x 0.9 SYT or 2 x 1 mm<sup>2</sup>
- Number of rooms per department in a building such as a hospital or clinic
- Number of rooms per department in a building such as a nursing home
- Number of rooms per department in a building such as a residential care home

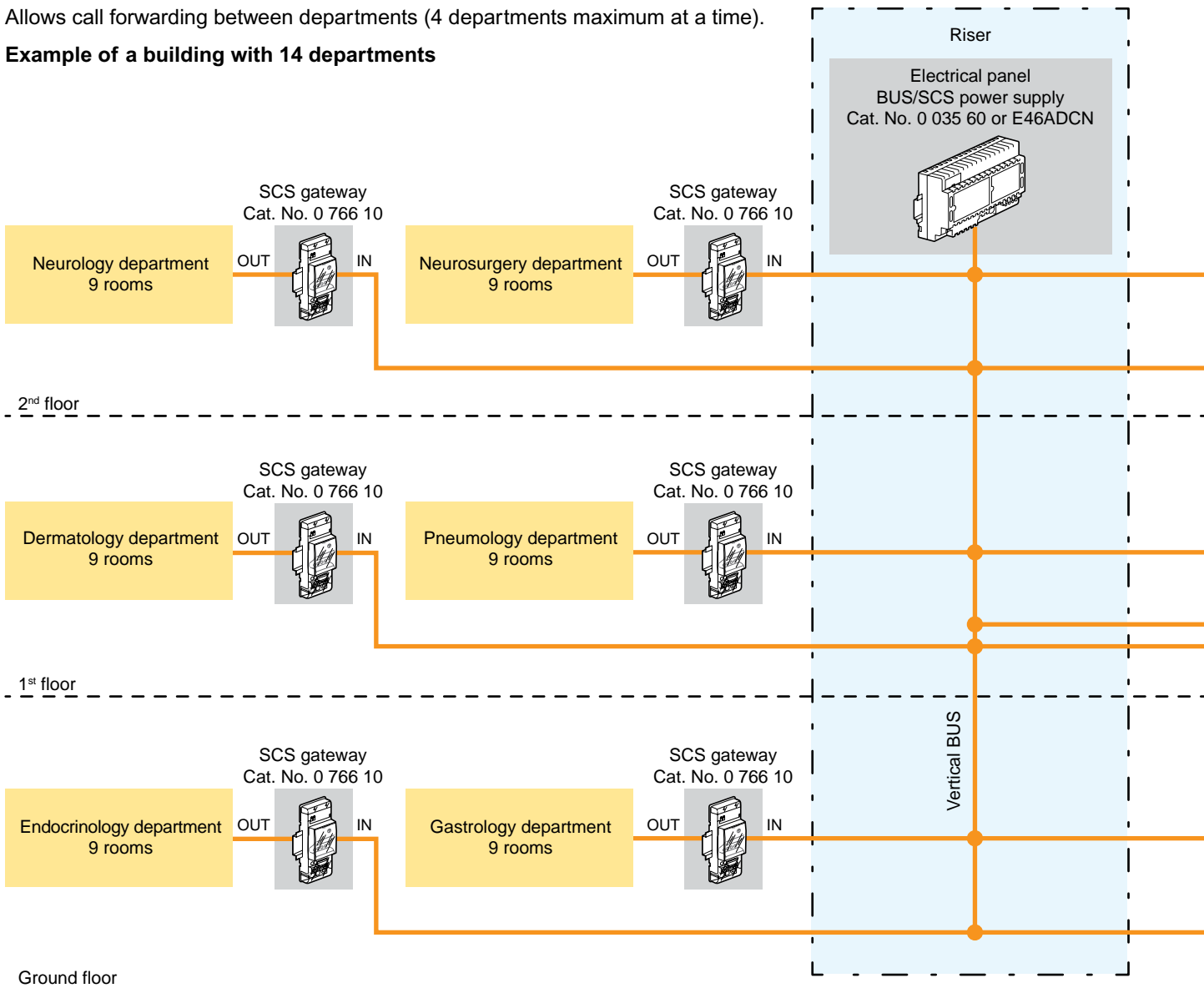


# BUS/SCS installation principle (continued)

## INSTALLATION PRINCIPLES FOR INTERCONNECTED DEPARTMENTS (WITH CALL FORWARDING)

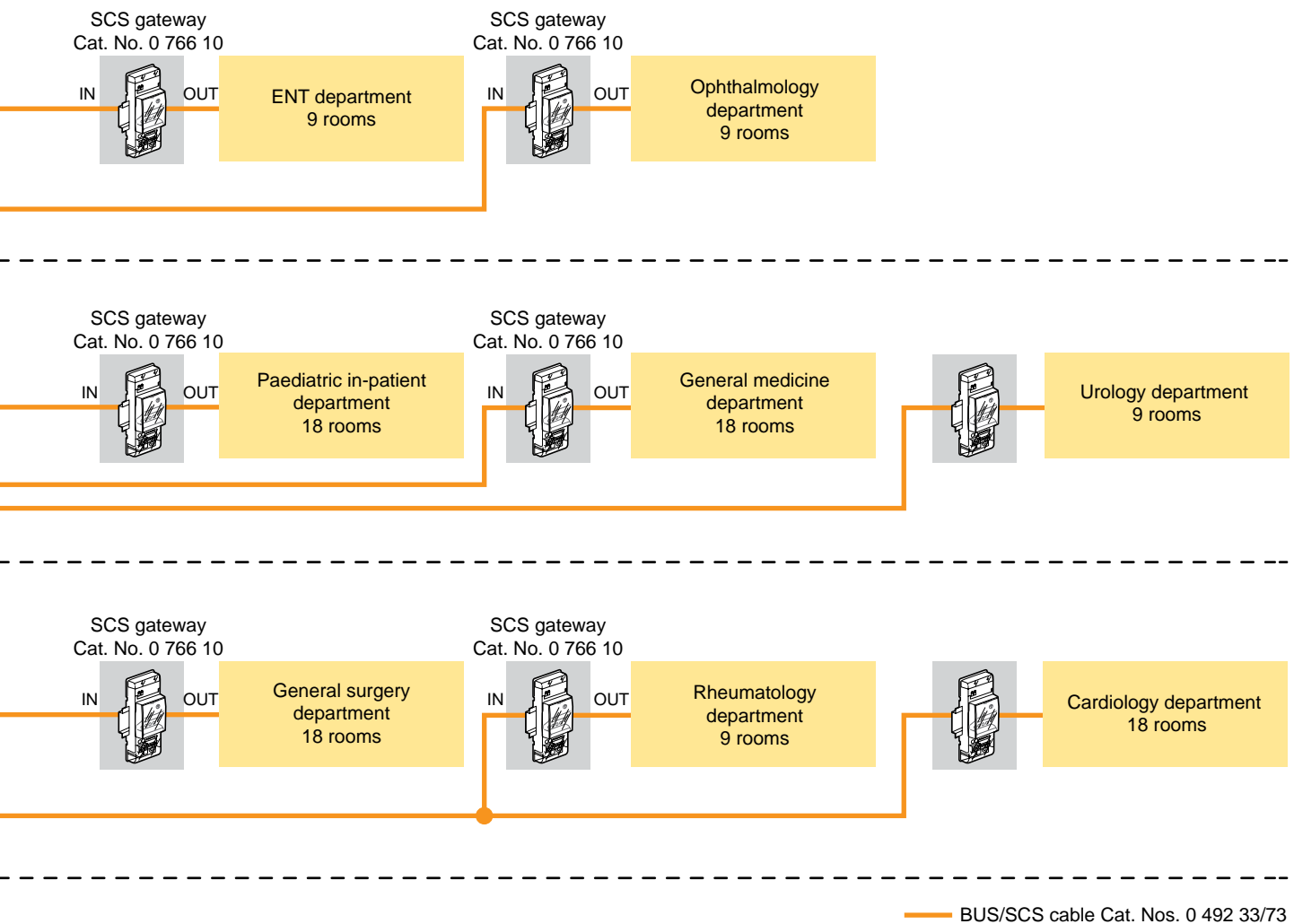
Allows call forwarding between departments (4 departments maximum at a time).

Example of a building with 14 departments



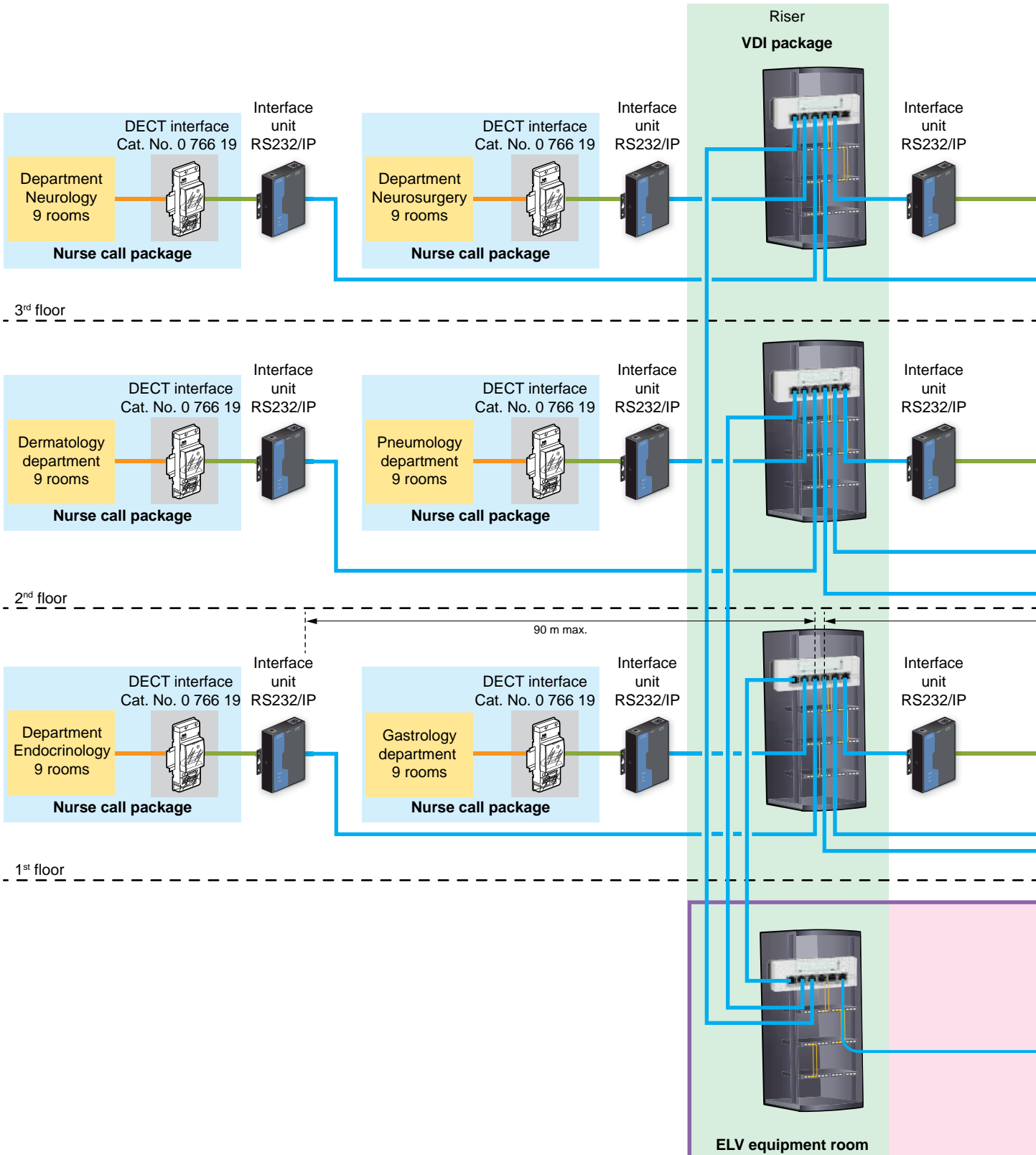
**NB:** The interdepartmental link only works for forwarding calls between departments.

**⚠** A maximum of 14 departments can be connected, with 4 calls max. forwarded. Each department must be autonomous as regards power supplies.

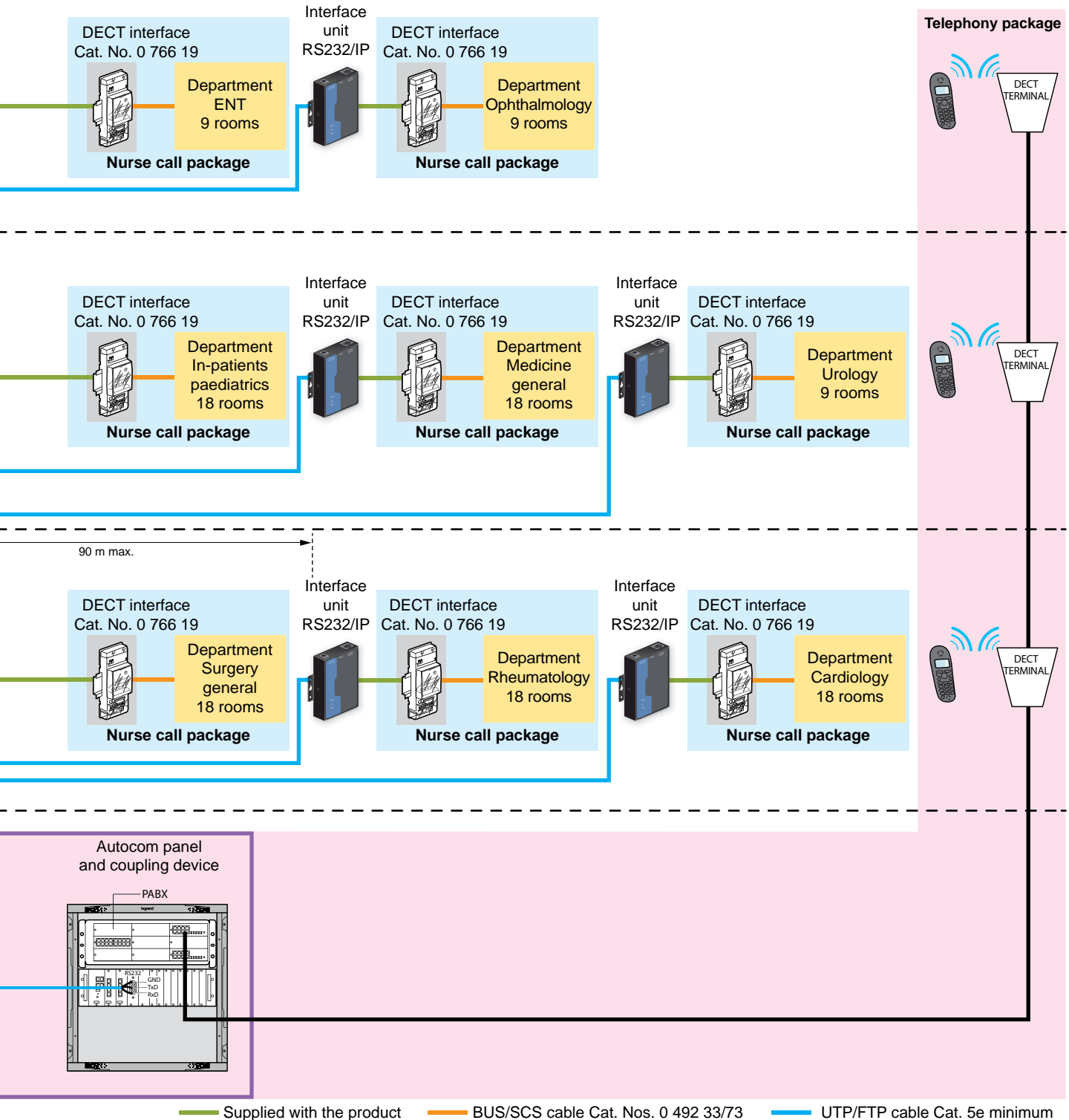


# BUS/SCS installation principle (continued)

## INSTALLATION PRINCIPLES FOR INDEPENDENT DEPARTMENTS WITH CENTRALISED



## TRACEABILITY AND CALL-FORWARDING OVER DECT



# BUS/SCS installation principle (continued)

## EXAMPLE OF WIRING FOR MAXIMUM LENGTHS OF BUS/SCS

The main devices, the nurses' station control unit and the patient room door units must be connected to the 27 V<sub>DC</sub> BUS/SCS and a 27 V indicator power supply.

The nurse call installation can be wired via a tap junction from any other device (door units, control units, etc).

The examples of installation in this guide are typical configurations.

It is vital to calculate the power supply in order to determine the power supplies required for each installation.

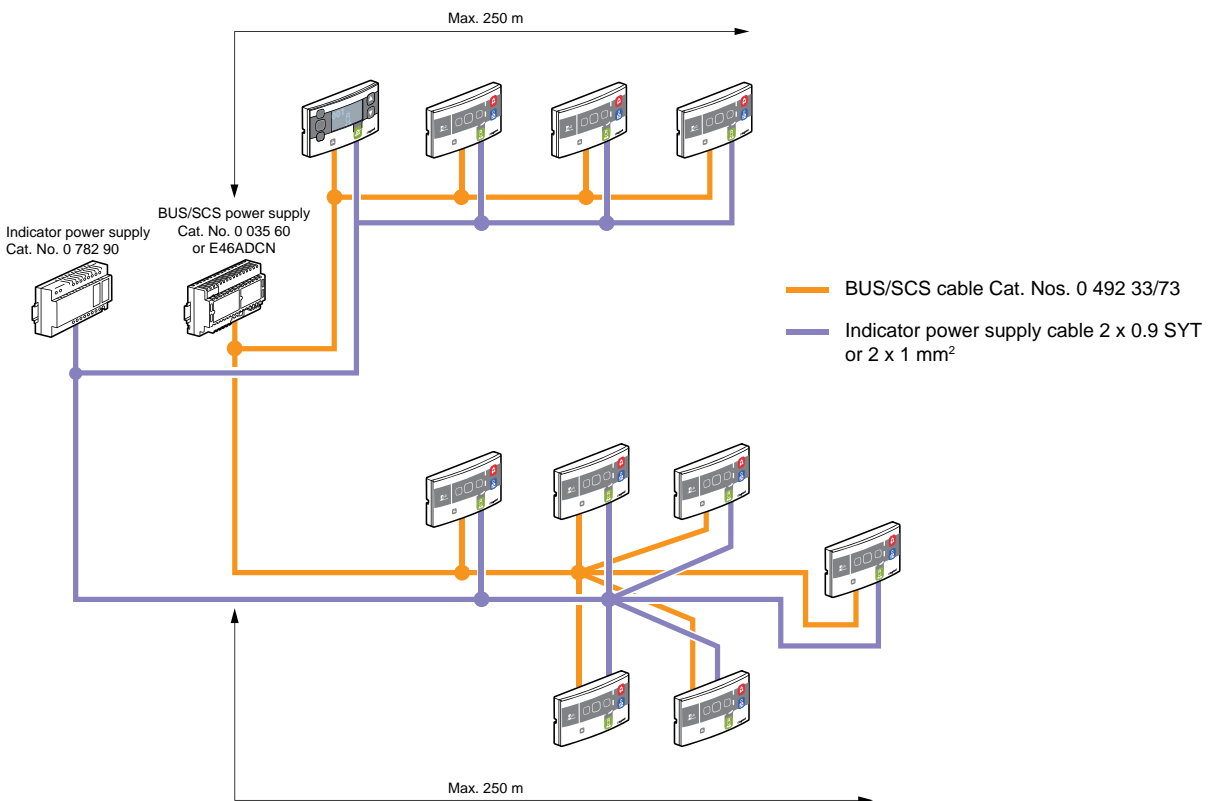
The number of devices that can be connected to the bus and the indicator power supply depends on the total power that they require.

Once the installation has been set up, it is also necessary to check that the installation is working properly and that the power supplies are sized correctly compared to the threshold case established during the study phase.

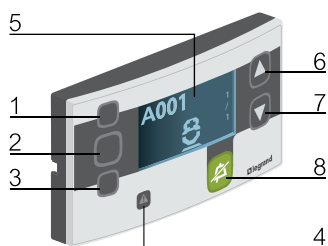
As well as power consumption requirements, the BUS wiring must also always comply with the following rules:

- The length of the link between the power supply and the furthest device must not exceed 250 metres.
- The total length of links within a department must not exceed 500 metres for bus power supply Cat. No. 0 035 60 or E46ADCN.

If the distances or required bus power are exceeded, it is possible to extend the installation using bus extension Cat. No. 0 766 10.



# Device presentation and installation



- 1 White LED bathroom indicator
- 2 Red LED alarm indicator
- 3 Green LED nurse presence indicator
- 4 Yellow LED installation error indicator
- 5 Display unit
- 6 and 7 Navigation buttons
- 8 Mute (silence) or confirmation button/device identification button for virtual parameter setting

## MAIN CONTROL UNIT CAT. NO. 0 766 11 AND SECONDARY CONTROL UNIT CAT. NO. 0 766 09

### Main control unit Cat. No. 0 766 11

The main control unit allows monitoring and control of rooms belonging to the same department. All information can be displayed on the LCD screen, enabling complete data management. In installations which use interphones, it is also necessary to install an interphone unit Cat. No. 0 766 08. For installation in the nurses' station. Install a maximum of one main control unit per department. If more are needed, install secondary control units.

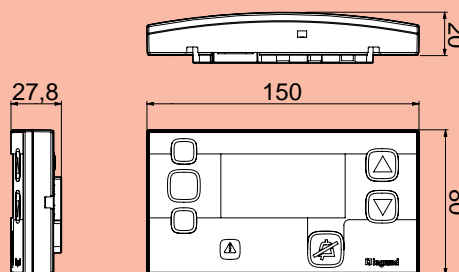
### Secondary control unit Cat. No. 0 766 09

The secondary control unit allows information to be relayed from the main control unit. For installation in a specific room (rest area, dining room, etc) In installations which use interphones, it is also necessary to install an interphone unit Cat. No. 0 766 08.

### Technical characteristics

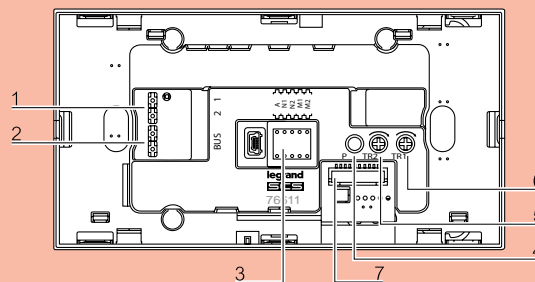
- Power supply: 27 V<sub>~</sub>
- Indicator power supply consumption:
  - in standby mode: 19 mA
  - max: 66 mA
- BUS power supply consumption: 3 mA  
Consumption in degraded mode: 29 mA on BUS power supply
- Operating temperature: 5 to 40°C
- Antimicrobial
- Protection index: IP 42
- Dimensions (H x W x D): 80 x 150 x 20 mm
- Installation (supplied with mounting support):
  - in 2-gang horizontal flush-mounting box (4 modules)
  - on wall with surface-mounting box Cat. No. 0 766 14
  - on control unit Cat. No. 0 766 12 or Cat. No. 0 766 13 (inclined plane) for fixing on table
- Sound level: max: 60 dBA at 2 m  
min: 40 dBA at 2 m

### Dimensions

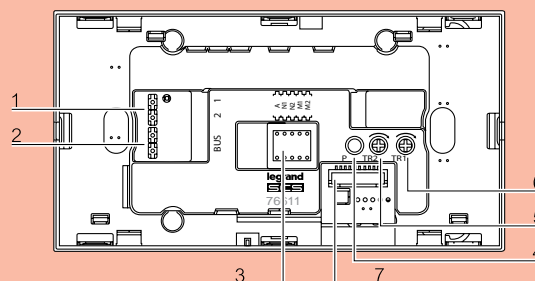


### Connection

- From 11W23 to 15W12



- From 15W13



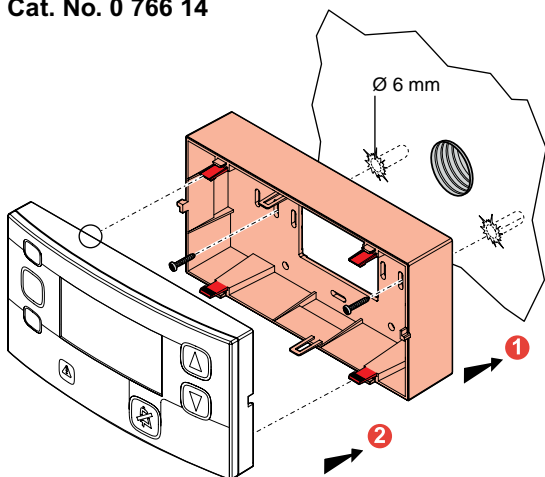
Modification of department call-forwarding mode

- 1 27 V<sub>~</sub> indicator power supply terminals 1-2
- 2 BUS terminals
- 3 Space for configurators
- 4 Factory reset button (press for 10 s)
- 5 Control button brightness adjustment
- 6 Buzzer volume adjustment
- 7 Connector for interphone unit

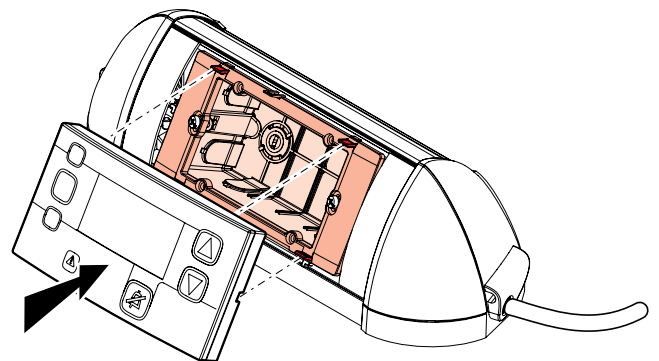
# Device presentation and installation (continued)

## MAIN CONTROL UNIT CAT. NO. 0 766 11 AND SECONDARY CONTROL UNIT CAT. NO. 0 766 09 (CONTINUED)

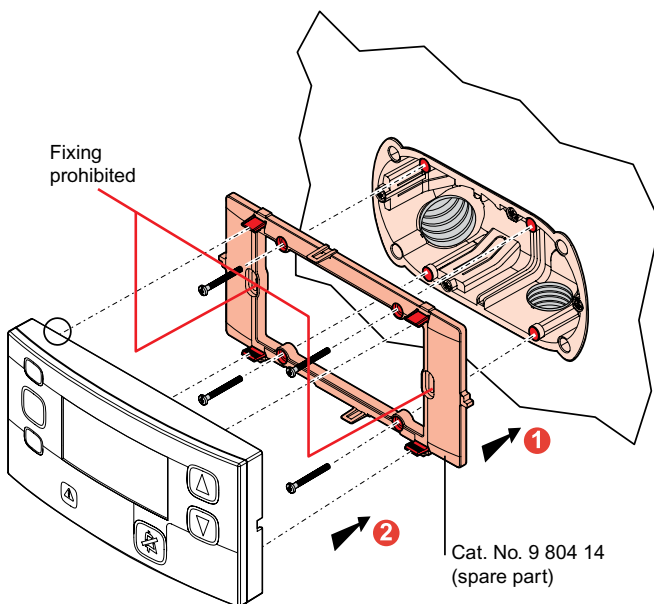
Surface-mounted wall installation with box  
Cat. No. 0 766 14



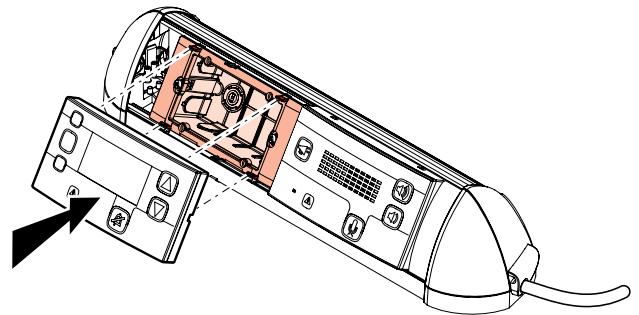
Installation on an inclined plane Cat. No. 0 766 12

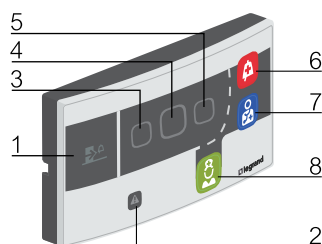


Flush-mounted wall installation in flush-mounting  
box, depth 50 mm



Installation on an inclined plane Cat. No. 0 766 13 with  
interphone unit Cat. No. 0 766 08





- 1 Red LED indicator for calls from another room
- 2 Yellow LED installation error indicator
- 3 White LED bathroom indicator
- 4 Red LED alarm indicator
- 5 Green LED nurse presence indicator
- 6 Call button/indicator
- 7 Doctor request button/indicator
- 8 Nurse presence and acknowledgement button/indicator and product identification button for virtual parameter setting

## DOOR UNIT WITH INDICATORS CAT. NO. 0 766 06

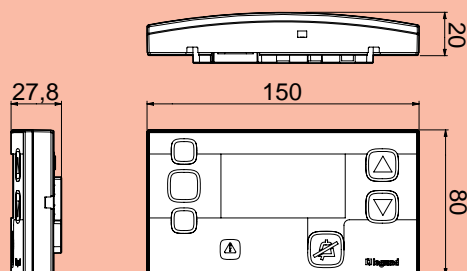
The door unit allows control and local display of calls, with visual and audible signalling.

Once present, it is used to signal calls from another room. The nurse present button can be remotely located on an external push-button, a coded keypad or card reader.

### Technical characteristics

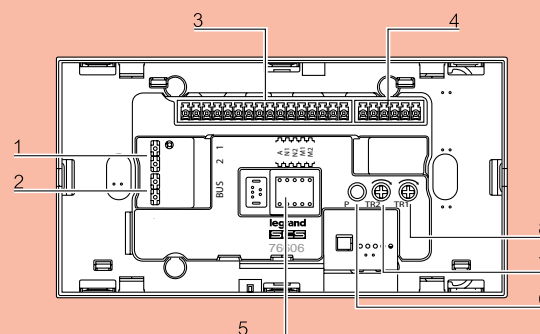
- Power supply: 27 V<sub>DC</sub>
- Indicator power supply consumption:
  - in standby mode: 38.5 mA
  - max: 198 mA
- BUS power supply consumption: 2.2 mA  
Consumption in degraded mode: 68 mA on BUS power supply
- Operating temperature: 5 to 40°C
- Antimicrobial
- Protection index: IP 42
- Dimensions (H x W x D): 80 x 150 x 20 mm
- Installation (supplied with mounting support):
  - in 2-gang flush-mounting box (4 modules)
  - on wall with surface-mounting box Cat. No. 0 766 14
- Sound level: max: 60 dBA at 2 m  
min: 40 dBA at 2 m

### Dimensions

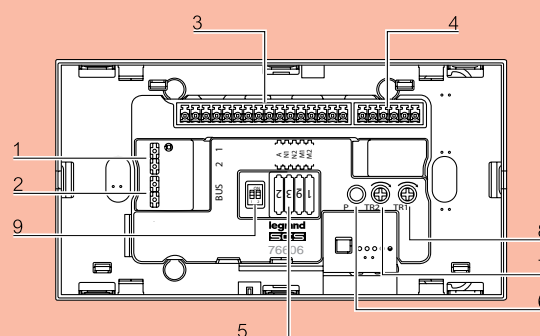


### Connection

- From 11W23 to 15W22



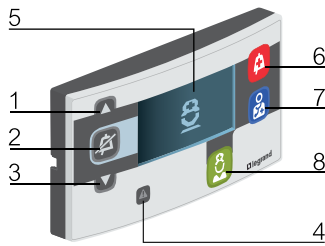
- From 15W23



- 1 27 V<sub>DC</sub> indicator power supply terminals 1-2
- 2 BUS terminals
- 3 Terminal block numbered 1 to 16
- 4 Terminal block numbered 17 to 22
- 5 Space for configurators
- 6 Factory reset button (press for 10 s)
- 7 Control button brightness adjustment
- 8 Buzzer volume adjustment
- 9 Microswitch for configuring the external acknowledgement button

**Flush-mounted or surface-mounted wall installation**  
(see main control unit Cat. No. 0 766 11)

# Device presentation and installation (continued)



- 1 Navigation button
- 2 Mute button (silence)
- 3 Navigation button
- 4 Yellow LED installation error indicator
- 5 Display unit
- 6 Call button/indicator
- 7 Doctor request button/indicator
- 8 Nurse presence and acknowledgement button/indicator and product identification button for virtual parameter setting

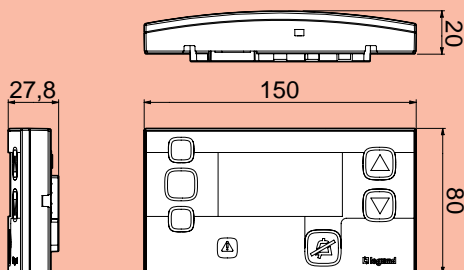
## DOOR UNIT WITH DISPLAY UNIT CAT. NO. 0 766 07

The door unit allows local control and display of calls, with visual and audio signalling, on a digital graphic screen. Once present, this unit becomes a control unit (it displays the same information and allows remote muting). Used in conjunction with the interphone unit Cat. No. 0 766 08 for communicating with rooms making calls with a nurse present. Hang-up function at the end of a call. The nurse present button can be remotely located on an external push-button, a coded keypad or card reader.

### Technical characteristics

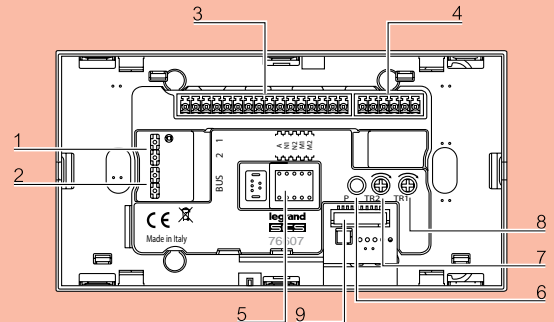
- Power supply: 27 V<sub>DC</sub>
- Indicator power supply consumption:
  - in standby mode: 38.5 mA
  - max: 233 mA
- BUS power supply consumption: 3 mA  
Consumption in degraded mode: 53 mA on BUS power supply
- Operating temperature: 5 to 40°C
- Antimicrobial
- Protection index: IP 42
- Dimensions (H x W x D): 80 x 150 x 20 mm
- Installation (supplied with mounting support):
  - in 2-gang flush-mounting box (4 modules)
  - on wall with surface-mounting box Cat. No. 0 766 14
- Sound level: max: 60 dBA at 2 m  
min: 40 dBA at 2 m

### Dimensions

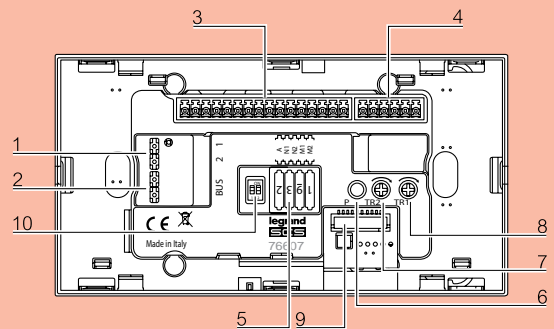


### Connection

- From 11W23 to 15W22



- From 15W23





- 1 27 V<sub>DC</sub> indicator power supply terminals 1-2
- 2 BUS terminals
- 3 Terminal block numbered 1 to 16
- 4 Terminal block numbered 17 to 22
- 5 Space for configurators
- 6 Factory reset button (press for 10 s)
- 7 Control button brightness adjustment
- 8 Buzzer volume adjustment
- 9 Connector for interphone unit
- 10 Microswitch for configuring the external acknowledgement button

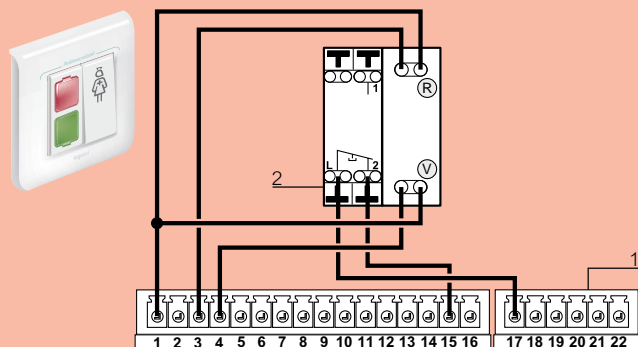
**Flush-mounted or surface-mounted wall installation (see main control unit Cat. No. 0 766 11)**

**Installation with interphone unit (see interphone unit Cat. No. 0 766 08)**

### Configuration of acknowledgement button for door units Cat. Nos. 0 766 06/07

Microswitch		Configuration of acknowledgement button
1	2	
ON	ON	Green button  only (factory configuration)
OFF	ON	Green button  and external push-button (NC) (Cat. No. 0 782 04)
ON	OFF	No button (do not use: no active button)
OFF	OFF	External push-button (NC) only (Cat. No. 0 782 04)

### Connection of external push-button and configuration



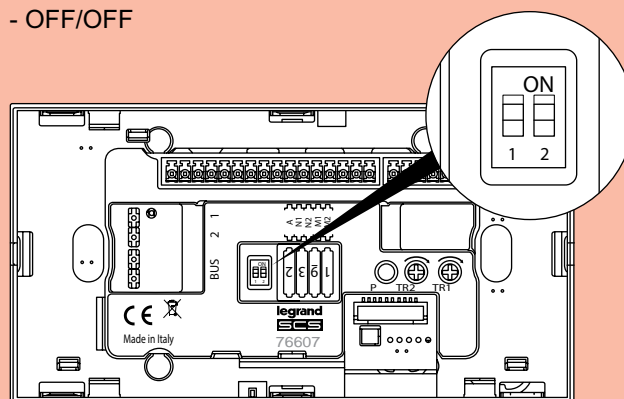
1 Door unit terminal block: 0 766 06/07

2 External push-button terminal block: 0 782 04

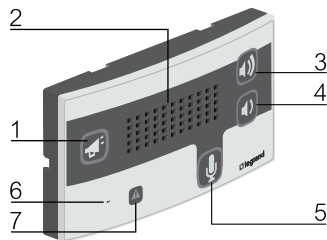
### Possible configurations of acknowledgement button

Microswitches in position:

- OFF/ON
- OFF/OFF



# Device presentation and installation (continued)



- 1 Communication button
- 2 Loudspeaker
- 3 - 4 Volume adjustment controls (maximum and minimum)
- 5 Hands-free button
- 6 Microphone
- 7 Yellow LED installation error indicator

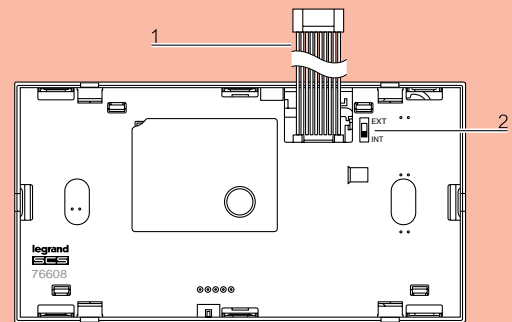
## INTERPHONE UNIT CAT. NO. 0 766 08

The interphone unit is used in conjunction with the main control unit (Cat. No. 0 766 11), with the secondary control unit (Cat. No. 0 766 09) and the door unit (Cat. No. 0 766 07), and allows two-way voice communication.

Once the call has been made, the nurse can speak to the patient and acknowledge the call if necessary. It must be used with a patient room microphone (Cat. No. 0 782 00) if the patient is more than 2 m away from the door unit.

If the interphone unit is used with a patient room microphone, the activation/deactivation switch must be in the external position.

### Connection

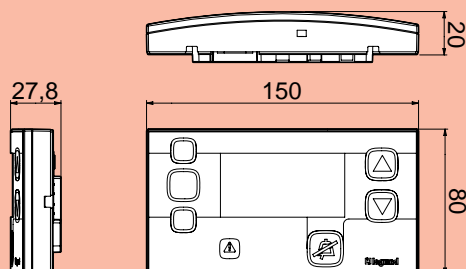


- 1 Ribbon cable for connection to door unit Cat. No. 0 766 07 or main control unit Cat. Nos. 0 766 11/09
- 2 External microphone activation/deactivation switch Cat. No. 0 782 00 (factory setting: microphone in indoor mode)

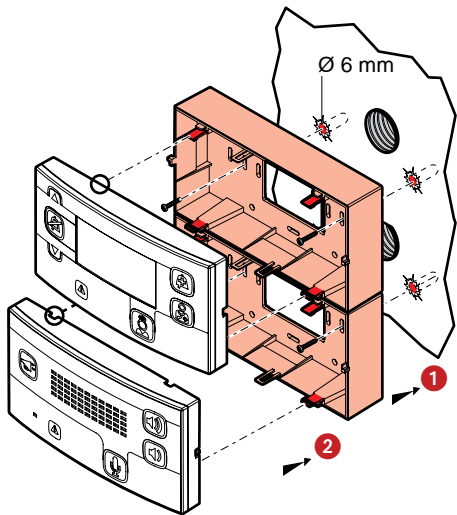
### Technical characteristics

- Power supply: via door units Cat. No. 0 766 07 or control unit Cat. No. 0 766 11
- Normal consumption: 42 mA on indicator power supply  
Consumption in degraded mode: 10 mA on bus power supply
- Operating temperature: 5 to 40°C
- Antimicrobial
- Protection index: IP 42
- Dimensions (H x W x D): 80 x 150 x 20 mm
- Installation (supplied with mounting support):  
- directly onto the wall or with surface mounting box Cat. No. 0 766 14

### Dimensions

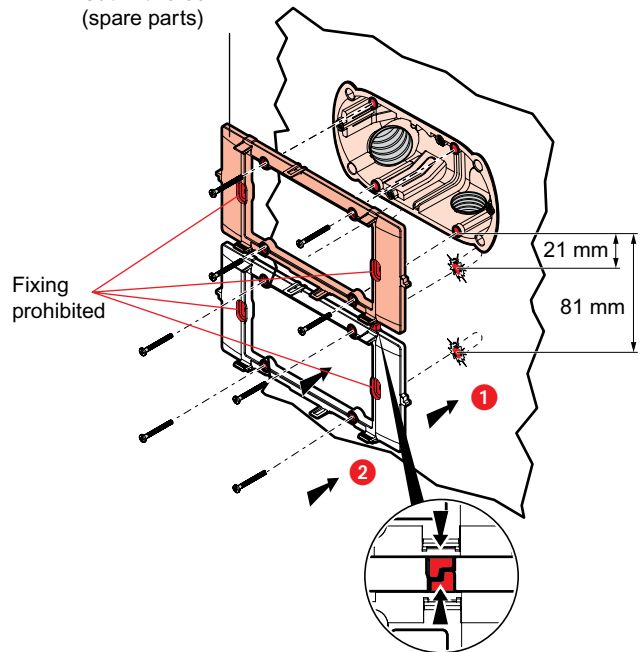


**Surface-mounted wall installation with door unit**  
**Cat. No. 0 766 07 and 2 boxes Cat. No. 0 766 14**

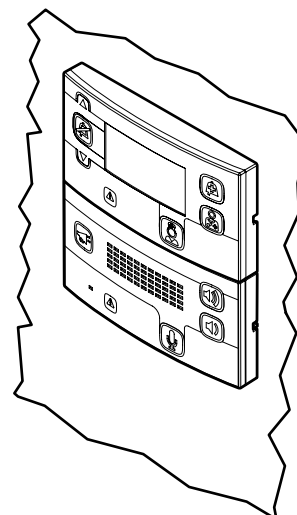
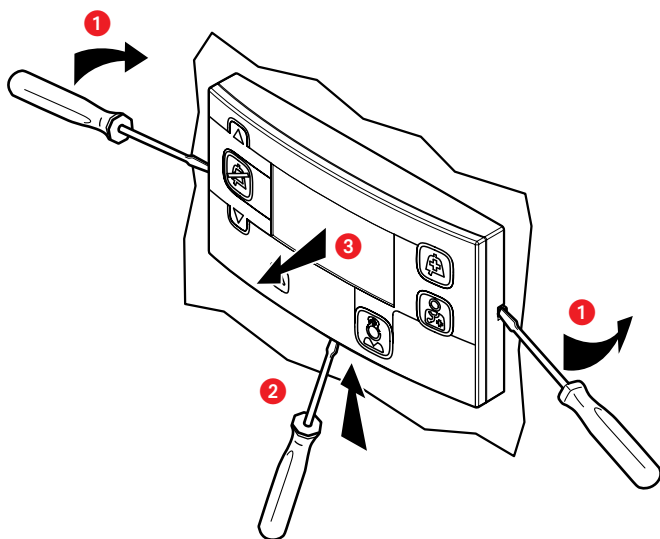


**Flush-mounted wall installation with door unit**  
**Cat. No. 0 766 07 and flush-mounting box**

Cat. No. 9 804 14  
 (spare parts)



**Removing the door unit**



# Device presentation and installation (continued)



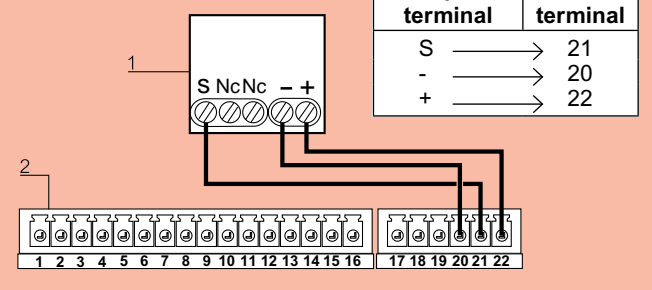
## PATIENT ROOM MICROPHONE CAT. NO. 0 782 00

The microphone is used in conjunction with the interphone unit (Cat. No. 0 766 08) to improve sound quality. This device must be installed close to the bedhead.

### Technical characteristics

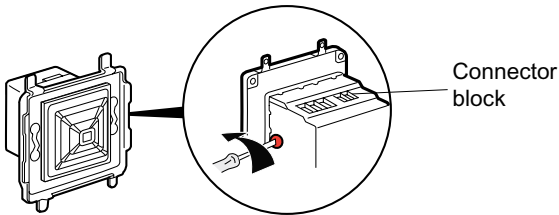
- Power supply: via door units Cat. No. 0 766 07
- Operating temperature: 5 to 40°C
- Protection index: IP 20
- Overall dimensions (H x W): 82 x 82 mm
- Installation (supplied with mounting support):
  - in 1-gang flush-mounting box
  - on wall with surface-mounting box Cat. No. 0 802 81
  - in a strip using special holder supplied
- 1 microphone max. per door unit

### Connection



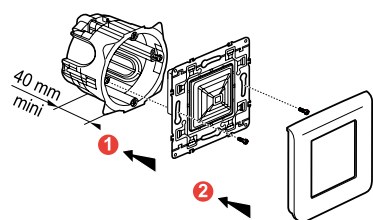
- 1 Microphone terminal block: 0 782 00
- 2 Door unit terminal block: 0 766 07

### Microphone sensitivity setting

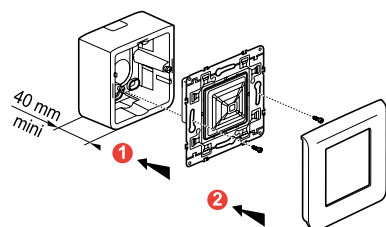


Very low gain factory setting. Microphone gain/ amplification can be adjusted.  
Tip: set to 3/4 of possible travel.

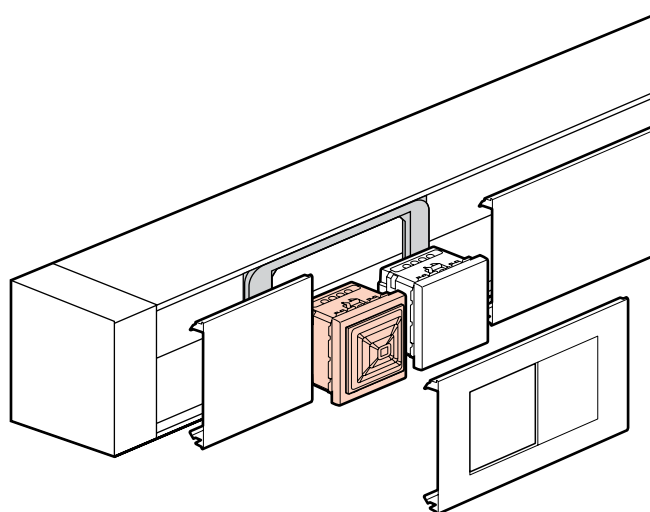
**Flush-mounted wall installation in 1-gang screw flush-mounting box**



**Surface-mounted wall installation with box  
Cat. No. 0 802 81**



**Installation in a strip using special holder**



# Device presentation and installation (continued)



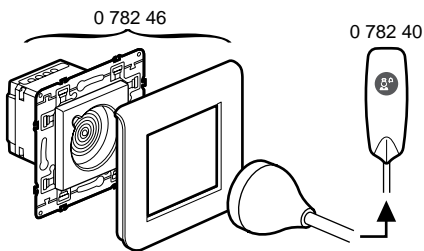
## SOCKETS CAT. NOS. 0 782 41/46 FOR HAND-HELD REMOTE CONTROL UNITS

**Sockets Cat. No. 0 782 41 for mounting in a strip and 0 782 46 for call-only hand-held remote control unit (push-button cord)**

Magnetic connection between hand-held unit and socket: can be ejected in any direction with pull-out torque designed to avoid any damage to the equipment. Antimicrobial.

Non-indexed magnetic connection socket for hand-held remote control unit Cat. No. 0 782 40.

0 782 41

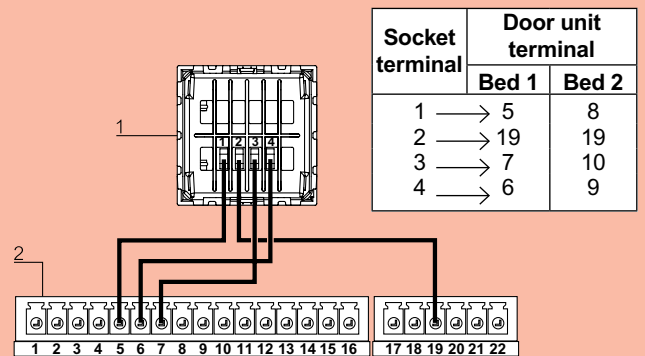


### Technical characteristics

- Power supply: via the door unit
- Operating temperature: 5 to 40°C
- Antimicrobial
- Protection index: IP 42
- Dimensions:
  - Cat. No. 0 782 41: 45 x 45 x 36 mm
  - Cat. No. 0 782 46: 82 x 82 x 36 mm
- Installation:
  - in 1-gang flush-mounting box (2 modules)
  - on wall with surface-mounting box Cat. No. 0 802 81
  - in a strip using special holder supplied

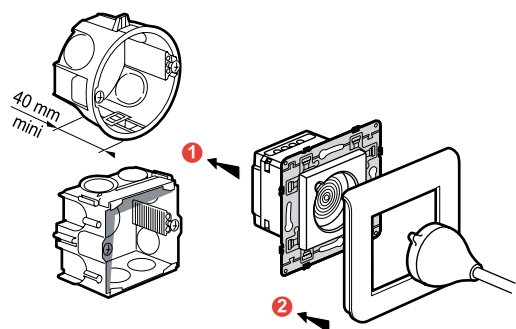
### Connection

Example: 1 bed in a room.

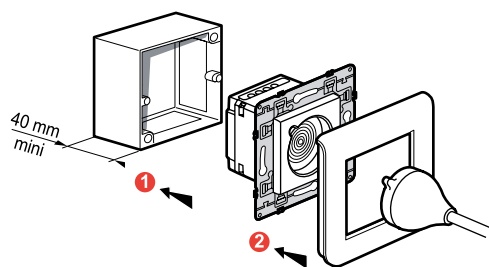


- 1 Socket terminal block: 0 782 41/46
- 2 Door unit terminal block: 0 766 06/07

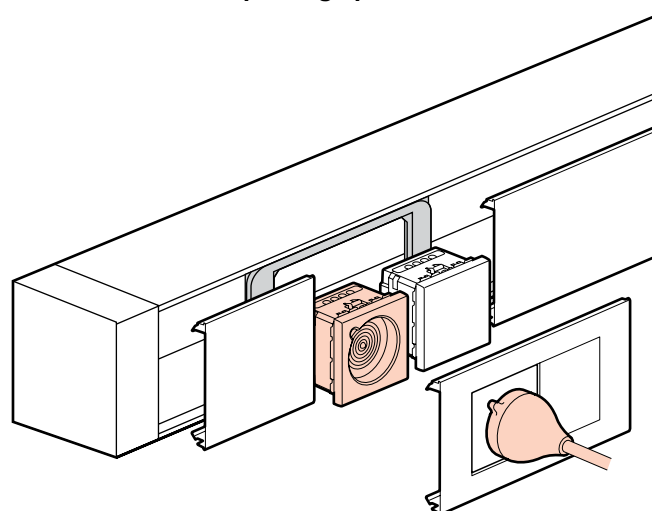
**Flush-mounted wall installation with 1-gang flush-mounting box**



**Surface-mounted wall installation with box Cat. No. 0 802 81**



**Installation in a strip using special holder**



# Device presentation and installation (continued)

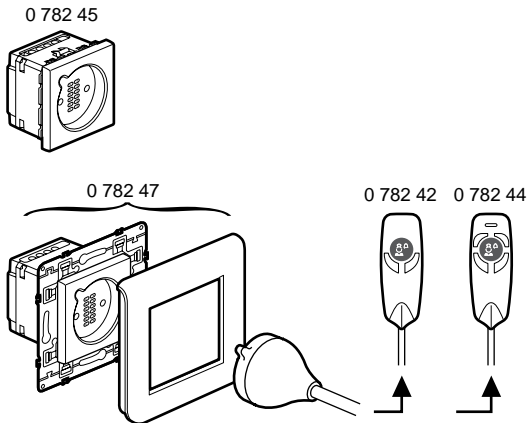


## SOCKETS CAT. NOS. 0 782 45/47 FOR HAND-HELD REMOTE CONTROL UNITS

### Sockets Cat. Nos. 0 782 45 and 0 782 47 for hand-held remote control units for calls and controls

Magnetic connection between hand-held unit and socket: can be ejected in any direction with pull-out torque designed to avoid any damage to the equipment. Antimicrobial.

Indexed magnetic connection socket for hand-held remote control unit Cat. Nos. 0 782 42 and 782 44.

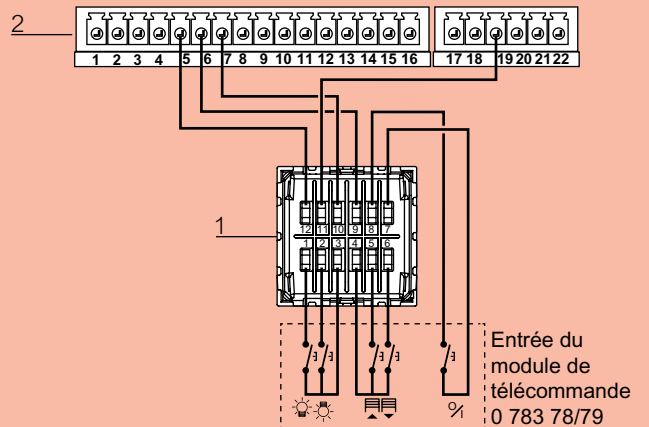


### Technical characteristics

- Power supply:
  - via the door unit for nurse calls
  - via remote control module Cat. No. 0 783 77 or 0 783 78 or 783 79 for lighting and roller blinds
- Operating temperature: 5 to 40°C
- Antimicrobial
- Protection index: IP 42
- Dimensions:
  - Cat. No. 0 782 45: 45 x 45 x 36 mm
  - Cat. No. 0 782 47: 82 x 82 x 36 mm
- Installation:
  - in 1-gang flush-mounting box (2 modules)
  - on wall with surface-mounting box Cat. No. 0 802 81

### Connection

Example: 1 bed in a room.

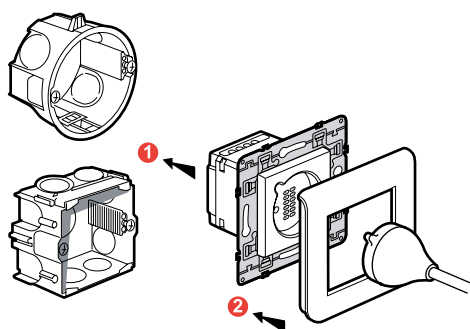


Socket terminal	Door unit terminal	
	Bed 1	Bed 2
12	→ 5	8
11	→ 19	19
10	→ 7	10
9	→ 6	9

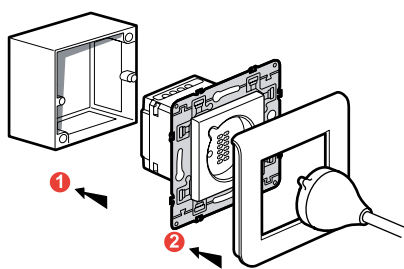
1 Socket terminal block: 0 782 45/47

2 Door unit terminal block: 0 766 06/07

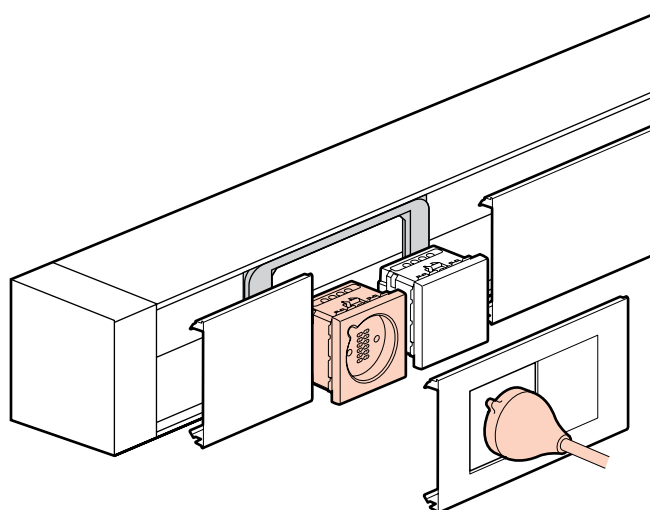
**Flush-mounted wall installation with 1-gang flush-mounting box**



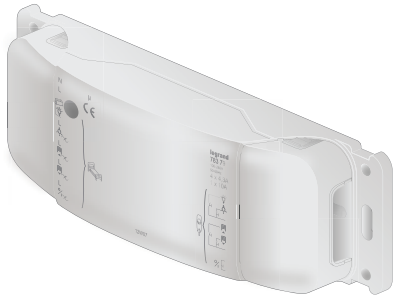
**Surface-mounted wall installation with box  
Cat. No. 0 802 81**



**Installation in a strip using special holder**



# Device presentation and installation (continued)



## REMOTE CONTROL MODULES CAT. NOS. 0 783 77/78/79

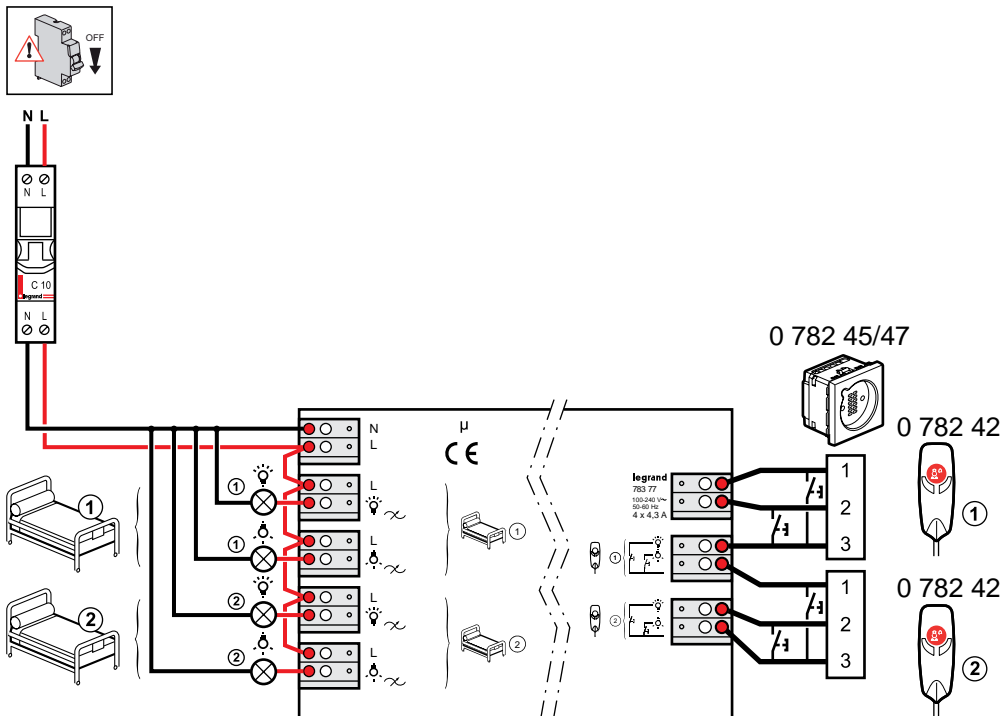
These units are used to control lighting or other SELV functions via hand-held remote control units.  
To be fitted in bedhead strips or ceiling-mounted.

### Technical characteristics

- Power supply: 100 - 240 V
- Operating temperature: 0 to 35°C
- Dimensions: 230 x 71 x 44 mm
- Installation: in bedhead strip or ceiling-mounted

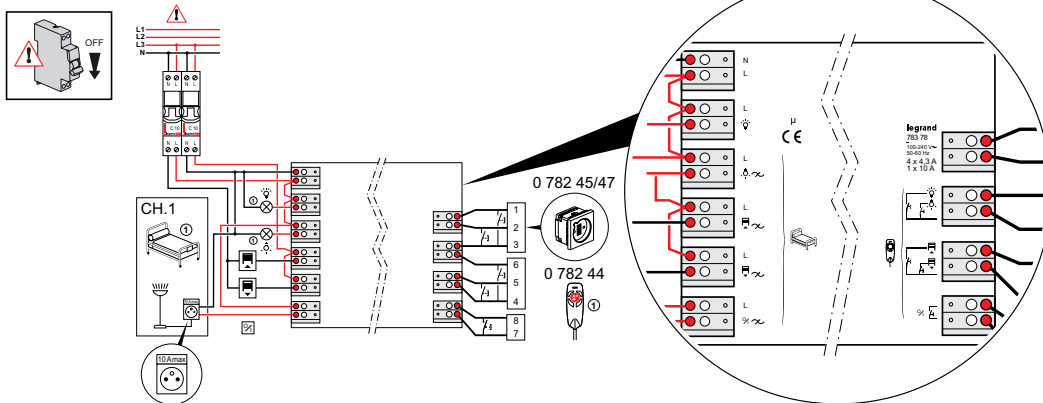
### Remote control module for bedhead strips for controlling 4 lighting outputs Cat. No. 0 783 77

Compatible with hand-held remote control unit Cat. No. 0 782 42.



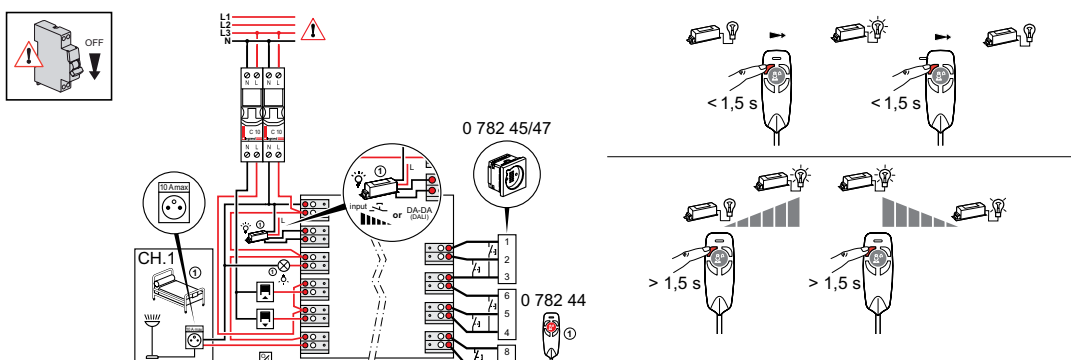
230 V~ 110 V~	500 W 250 W	2 A	1000 W 500 W	4,3 A	500 VA 250 VA	2 A	500 VA 250 VA	2 A	500 VA 250 VA	2 A	500 VA 250 VA	2 A

**Remote control module for bedhead strips for controlling 2 lighting outputs and roller blinds Cat. No. 0 783 78**  
 Compatible with hand-held remote control unit Cat. No. 0 782 44.



+ 35°C 0°C														
230 V~ 110 V~	500 W 250 W	2 A	1000 W 500 W	4.3 A	500 VA 250 VA	2 A	500 VA 250 VA	2 A	500 VA 250 VA	2 A	500 VA 250 VA	2 A	1 x 500 VA 1 x 250 VA	2 A

**Bedhead strip remote control module for controlling 2 lighting outputs (room lighting with dimmer and reading ON/OFF), roller blinds and one 10 A any-function output Cat. No. 0 783 79**  
 Compatible with hand-held remote control unit Cat. No. 0 782 44.



+ 35°C 0°C														
230 V~ 110 V~	500 W 250 W	2 A	1000 W 500 W	4.3 A	500 VA 250 VA	2 A	500 VA 250 VA	2 A	500 VA 250 VA	2 A	500 VA 250 VA	2 A	1 x 500 VA 1 x 250 VA	2 A

## Device presentation and installation (continued)



### HAND-HELD REMOTE CONTROL UNITS

Allow patients to call a nurse (using an NC push-button) via the door unit.

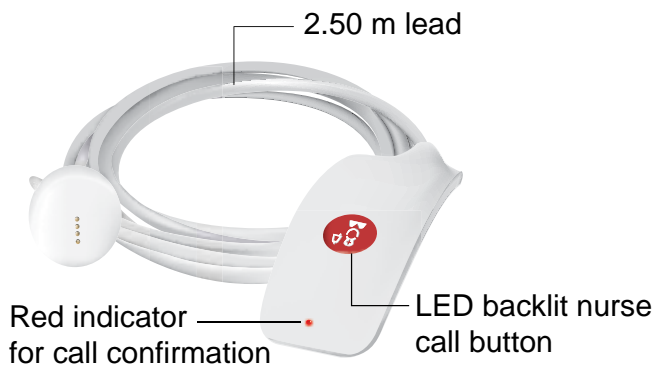
Magnetic connection between hand-held remote control units and sockets:

can be ejected in any direction with pull-out torque designed to avoid any damage to the equipment.

Recommended cleaning: use wipes impregnated with detergent for food contact surfaces (Dettol, etc).

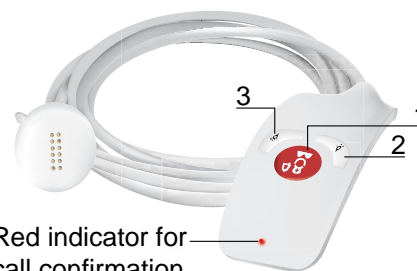
#### Hand-held remote control unit for call only (call push-button cord) Cat. No. 0 782 40

For use with socket Cat. No. 0 782 41 or 0 782 46.



#### Hand-held remote control units for calls and controls Cat. No. 0 782 42

For use with socket Cat. No. 0 782 45 or 0 782 47.

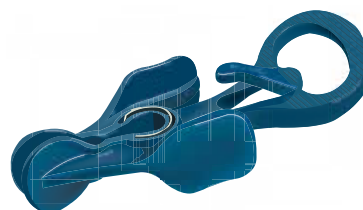


Red indicator for call confirmation

- 1 LED backlit nurse call button
- 2 Reading light control (NO push-button)
- 3 Room lighting control (NO push-button)

#### Technical characteristics

- Power supply: via sockets for hand-held remote control units
- Operating temperature: 5 to 40°C
- Antimicrobial
- Protection index: IP 67 (without plug)
- Cable length: 2.5 m
- Can be fixed or held in place with clamp Cat. No. 0 782 43
- Backlight consumption: 2 mA

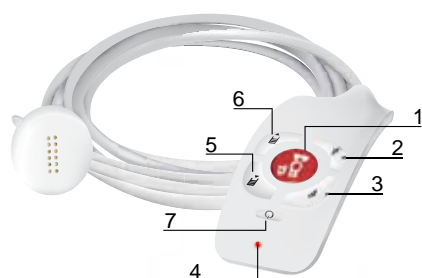


### CLAMP CAT. NO. 0 782 43

For holding the hand-held remote control unit within reach: on bedding, clothes or the arm of a chair.

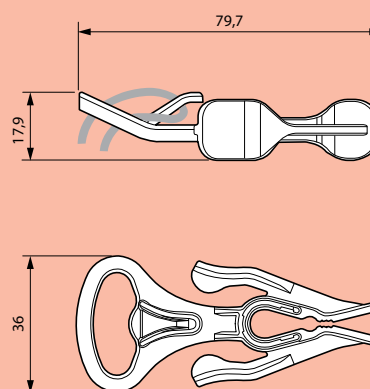
### Hand-held remote control unit for calls and controls Cat. No. 0 782 44

For use with socket Cat. No. 0 782 45 or 0 782 47.



- 1 LED backlit nurse call button
- 2 Reading light control (NO push-button)
- 3 Room lighting control (NO push-button)
- 4 Red call confirmation indicator
- 5 and 6 Roller blind control (NO push-button)
- 7 Free function button (NO push-button)

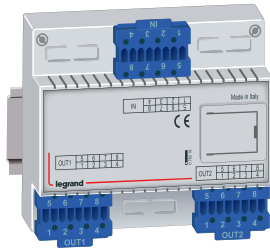
### Dimensions



### Technical characteristics

- Power supply: via sockets for hand-held remote control units
- Operating temperature: 5 to 40°C
- Antimicrobial
- Protection index: IP 67 (without plug)
- Backlight consumption: 2 mA
- Cable length: 2.5 m
- Can be fixed or held in place with clamp  
Cat. No. 0 782 43

# Device presentation and installation (continued)



## BED EXTENSION CAT. NO. 0 782 19 FOR DOOR UNITS CAT. NOS. 0 766 06/07

Connected to hand-held remote control units and the door unit, this extension can be used to manage up to four beds per room and identify them as 1 to 4 on the various display units (door units, nurses' control units, corridor display units and DECT).

**Configuration is only possible on the door unit using the Nurse Call Configurator software Cat. No. 0 766 15 (physical configuration not possible).**

### Technical characteristics

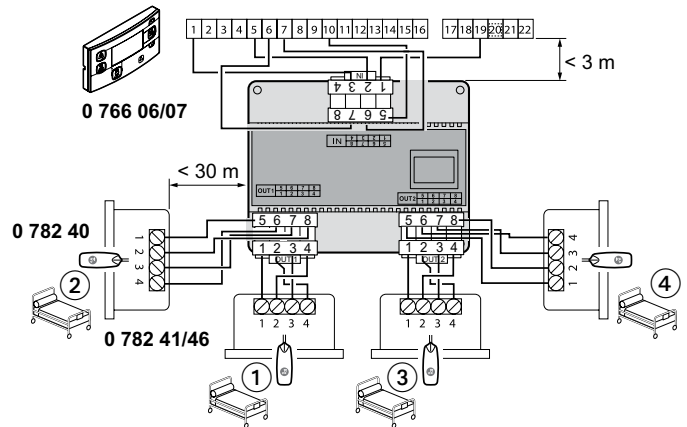
- Power supply: door unit
- Consumption: 1.8 W max.
- Operating temperature: - 5°C to + 40°C
- Dimensions: 6 DIN modules

# = Call source	
Door unit	
Bed 1	1
Bed 2	2
Bed 3	3
Bed 4	4
WC/Bathrooms	W

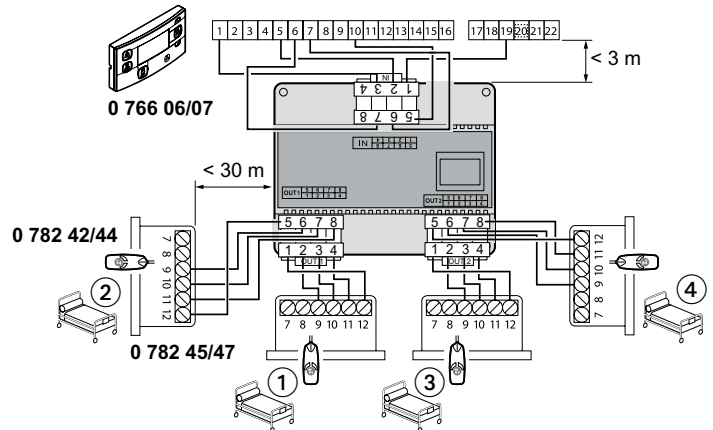
Example of a call:  
A001-3 ! : call from department A, room 1, bed 3.

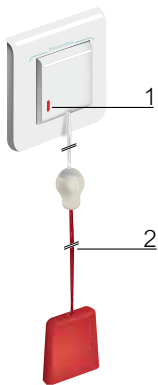
### Connection

**Installation with hand-held remote control units for call only**

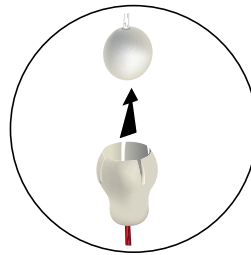


**Installation with hand-held remote control units for calls and controls**





1 Red call confirmation indicator  
2 NC call button  
Ejectable red anti-microbial cord



Can be positioned in zone 1 of the bathroom and recommended at a height of 2.3 m

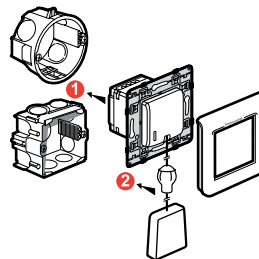
## EJECTABLE CALL PULL-CORD FOR BATHROOMS CAT. NO. 0 782 48

Allows calls to a nurse from the bathrooms.

### Technical characteristics

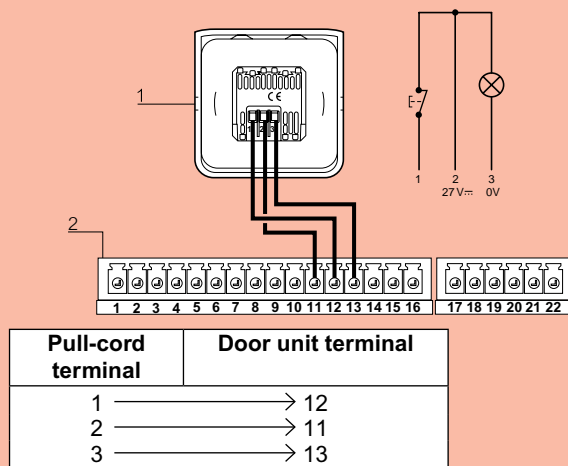
- Power supply: via door units Cat. No. 0 766 06 or 0 766 07
- Operating temperature: 5 to 40°C
- Antimicrobial
- Protection index: IP 55 (flush-mounting only)
- Dimensions (H x W x D): 82 x 82 x 43 mm
- Installation: in 1-gang flush-mounting box

### Flush-mounted wall installation with 1-gang flush-mounting box



### Connection

Example for 1 bathroom

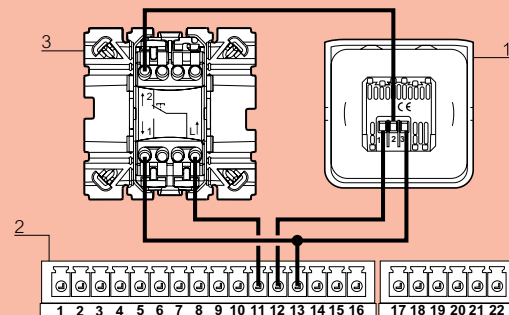


1 Bathroom pull-cord terminal block: 0 782 48

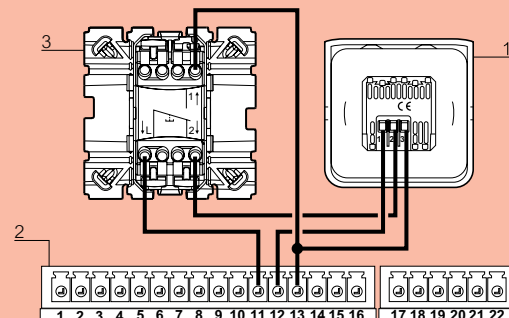
2 Door unit terminal block: 0 766 06/07

### Connection

• Up to 15W48



• From 15W48



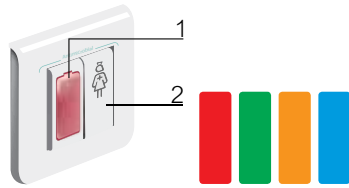
1 Bathroom pull-cord terminal block: 0 782 48

2 Door unit terminal block: 0 766 06/07

3 Soliroc call button terminal block: 0 782 51

**NB:** Wire up the call button terminal block Cat. No. 0 782 51 before the bathroom pull-cord terminal block Cat. No. 0 782 48. If the order is reversed, remember to swap the wires on terminals 11 and 12.

# Device presentation and installation (continued)



- 1 Red call confirmation indicator
- 2 NC call button

Possibility of IP 44 with plate Cat. No. 0 788 80

## BATHROOM CALL UNITS OR CALL BUTTON CAT. NO. 0 766 85

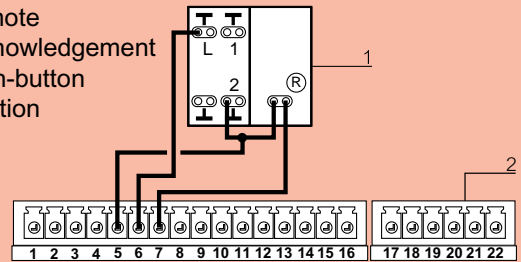
### Technical characteristics

- Power supply: via door units Cat. No. 0 766 06 or 0 766 07
- Operating temperature: 5 to 40°C
- Antimicrobial
- Protection index: IP 20
- Dimensions (H x W x D): 82 x 82 x 43 mm
- Installation:
  - in 1-gang flush-mounting box (2 modules)
  - in surface-mounting box Cat. No. 0 802 81 (IP 20)

### Connection of call button

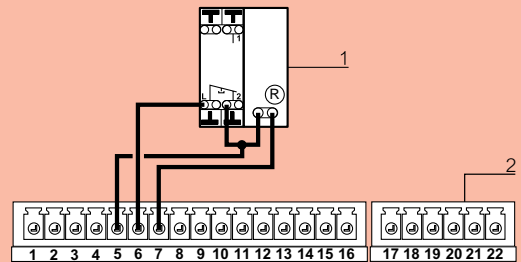
- From 06W30 to 15W22

Remote acknowledgement push-button function



- 1 Call unit terminal block: 0 766 85
- 2 Door unit terminal block: 0 766 06/07

- From 15W23

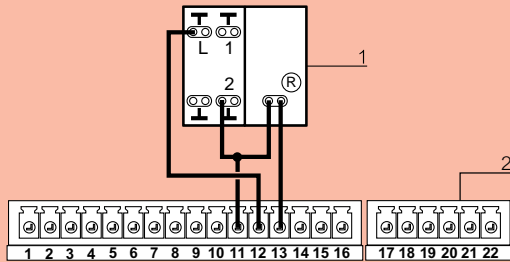


Call unit terminal	Door unit terminal	
	Bed 1	Bed 2
L	6	9
2	5	8
R		
R	7	10

- 1 Call unit terminal block: 0 766 85
- 2 Door unit terminal block: 0 766 06/07

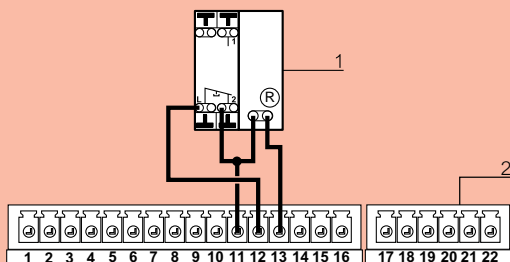
### Connection of bathroom call unit

- From 06W30 to 15W22



- 1 Call unit terminal block: 0 766 85
- 2 Door unit terminal block: 0 766 06/07

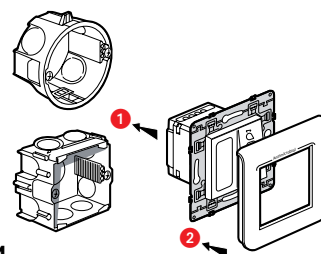
- From 15W23



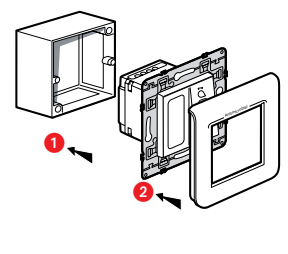
- 1 Call unit terminal block: 0 766 85
- 2 Door unit terminal block: 0 766 06/07

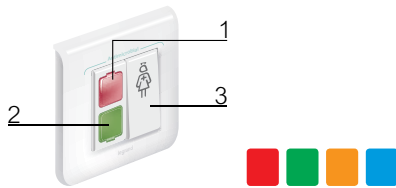
Call unit terminal	Door unit terminal
L	12
2	11
R	
R	13

### Flush-mounted wall installation with 1-gang flush-mounting box



### Surface-mounted wall installation with box Cat. No. 0 802 81





- 1 Red call confirmation indicator
- 2 Nurse present indicator
- 3 Presence and acknowledgement push-button

## ACKNOWLEDGEMENT OR REMOTE ACKNOWLEDGEMENT PUSH-BUTTON CAT. NO. 0 782 04

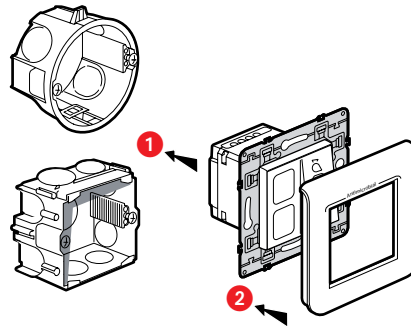
Comprising 2 white indicators which can be fitted with red and green labels and a push-button for nurse presence and call acknowledgement.

Recommendation: place the red label on the call indicator (top indicator) and the green label on the bottom indicator.

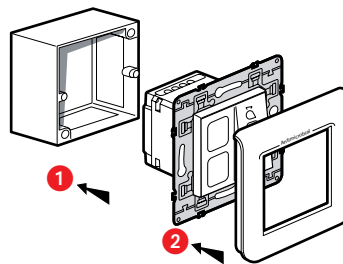
### Technical characteristics

- Power supply: via door units Cat. No. 0 766 06 or 0 766 07
- Operating temperature: 5 to 40°C
- Antimicrobial
- Protection index: IP 20
- Dimensions (H x W x D): 82 x 82 x 43 mm
- Installation:
  - in 1-gang flush-mounting box (2 modules)
  - in surface-mounting box Cat. No. 0 802 81 (IP 20)

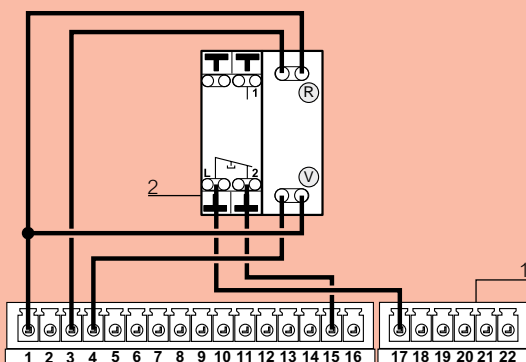
### Flush-mounted wall installation with 1-gang flush-mounting box



### Surface-mounted wall installation with box Cat. No. 0 802 81



### Connection



1 Door unit terminal block: 0 766 06/07

2 Remote acknowledgement button terminal block: 0 782 04

Acknowledgement PB	Door unit terminal
L	→ 17
2	→ 15
R	→ 1
R	→ 3
G	→ 1
G	→ 4

# Device presentation and installation (continued)

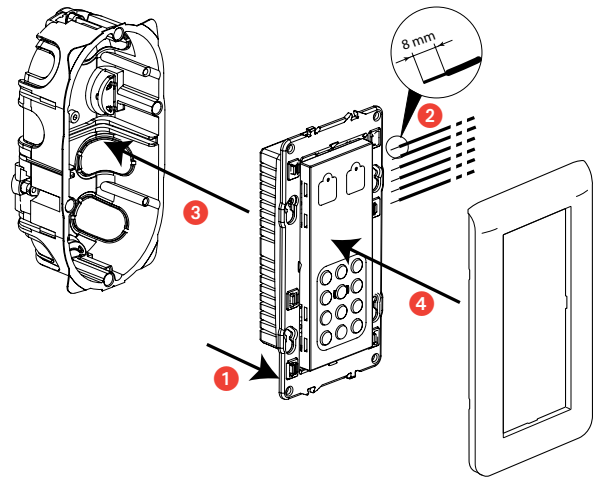


## CODED KEYPAD CAT. NO. 0 767 41

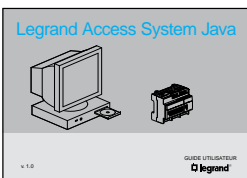
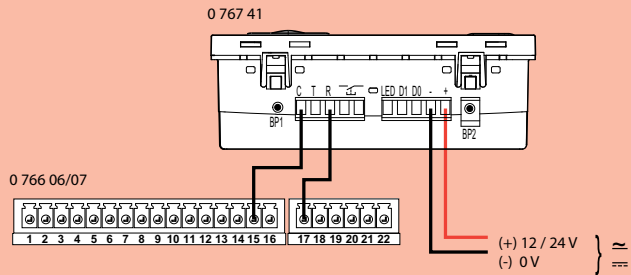
### Technical characteristics

- Power supply: 12/24 V $\sim$ /=
- Consumption: 47 mA
- Operating temperature: -10 to +55°C
- Dimensions:
- Installation: in 2-gang flush-mounting box (5 modules)
- Protection index: IP 30 - IK 04

### Flush-mounted wall installation with 2-gang flush-mounting box



### Connection



For more info on access control, see Legrand Access System Java guide

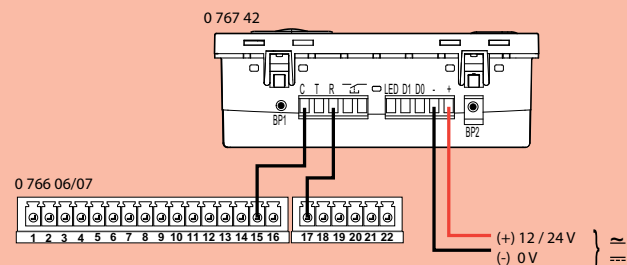


## 13.56 MHZ CARD READER CAT. NO. 0 767 42

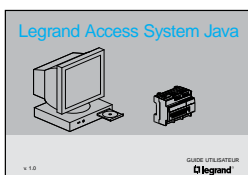
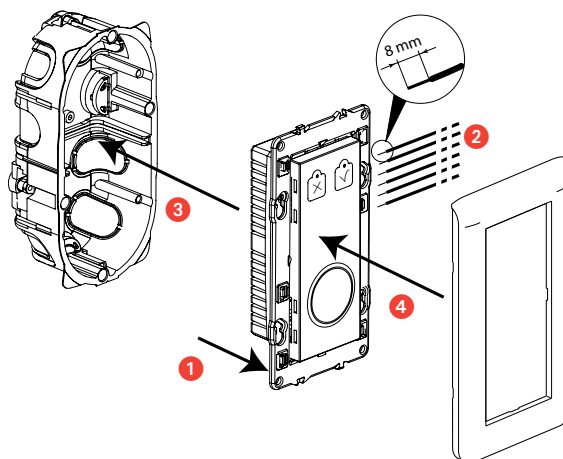
### Technical characteristics

- Power supply: 12/24 V $\sim$ /=
- Consumption: 118 mA
- Operating temperature: -10 to +55°C
- Dimensions:
- Installation: in 2-gang flush-mounting box (5 modules)
- Protection index: IP 30 - IK 04

### Connection

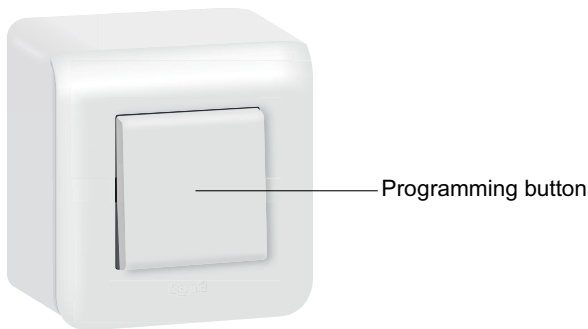


### Flush-mounted wall installation with 2-gang flush-mounting box



For more info on access control, see Legrand Access System Java guide

# Device presentation and installation (continued)



## RADIO RECEIVER CAT. NOS. 21TACR901/902 FOR PERSONAL RADIO TRANSMITTERS

Radio unit which receives call signals emitted by personal radio triggers (eg: pendant trigger, alarm trigger watch, etc), as well as transmission of information to the door unit.

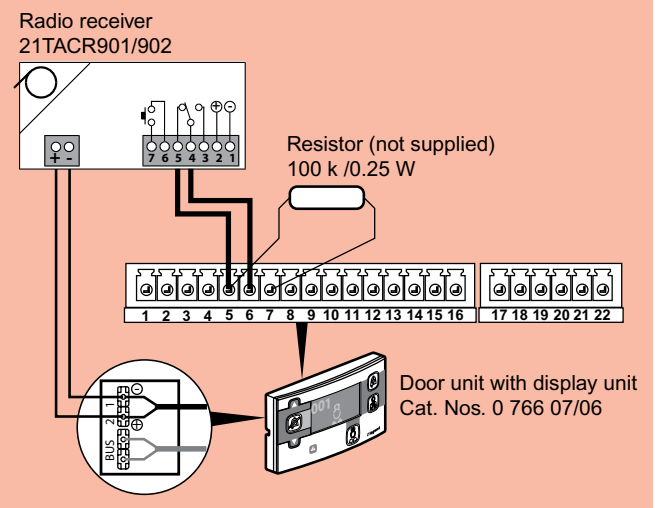
**⚠** This product must be powered by an uninterruptible power supply.

We recommend use of a double conversion on-line UPS.

### Technical characteristics

- Power supply via the door unit or 9 to 24 V<sub>~</sub>
- Consumption: 12 mA
- Operating temperature: 5 to 40°C
- Dimensions: 82 x 82 mm - D = 50 mm
- NO/NC relay output - Relay output power 1 A/30 V
- Surface-mounted installation with box Cat. No. 0 802 81 supplied  
Recommended: ceiling-mounted or in technical cabinet (not accessible to the public)
- Max. distance between transmitter and receiver: 100 m in unobstructed space
- Max. number of triggers for one receiver: 15
- Programming: see the instructions supplied with the product

### Connection





**PERSONAL TRIGGER**  
**CAT. NOS. 21PDER904/906**

Personal radio transmitter which can be used as a watch, clip or pendant.  
 Allows the patient to make a call from their room, no matter where they are inside it.  
 Works with radio receiver Cat. Nos. 21TACR901/902.  
 Product supplied with 1 "clip" accessory and a black anti-strangulation chain.

**Technical characteristics**

- European social alarm frequency: 869.2375 Mhz
- Weight: 11 g
- Protection index: IP 67
- Standby power: 5 years
- Radio range: up to 200 m in unobstructed space
- Dimensions: 39.2 x 34.3 x 9.9 mm



**ALARM TRIGGER WATCH**  
**CAT. NO. 21PMOR902**

Personal radio transmitter.  
 Allows the patient to make a call from their room, no matter where they are inside it.  
 Works with radio receiver Cat. Nos. 21TACR901/902.  
 Supplied with wrist strap and clip so it can be worn as a pendant.

**Technical characteristics**

- European social alarm frequency: 869.2375 Mhz
- Weight: 24 g
- Protection index: IP 67
- Standby power: 2 years (with 1 call a day)
- Replaceable battery: CR2032 (Renata)
- Radio range: up to 200 m in unobstructed space
- Dimensions: 46 x 38 x 13 mm

## Device presentation and installation (continued)



### PERSONAL TRIGGER AND FALL DETECTOR CAT. NOS. 21PDER911/912

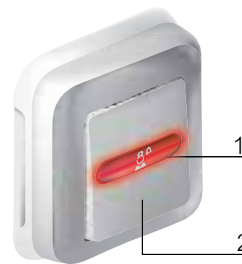
Personal radio transmitter.

2 functions: it can automatically send a signal when the patient has a sudden fall. It also allows the patient to manually trigger a call from their room, no matter where they are inside it.

Works with radio receiver Cat. Nos. 21TACR901/902.

#### Technical characteristics

- European social alarm frequency: 869.2375 Mhz
- Weight: 35 g
- Protection index: IP 67
- Standby power: 2 years (with 1 call a day)
- Replaceable battery: CR2477
- Radio range: up to 200 m in unobstructed space
- Dimensions: 37 x 12 mm



- 1 Red call confirmation indicator
- 2 NC call push-button

### WATERPROOF CALL UNIT FOR BATHROOMS OR NON-STANDARD ENVIRONMENTS CAT. NO. 0 782 49

Allows patients to call a nurse.

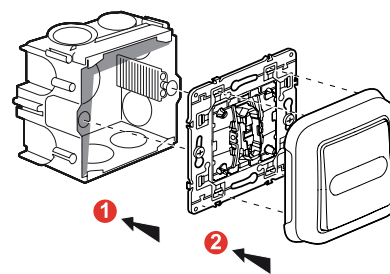
Suitable for damp environments (eg: rehabilitation and spa recovery centres with swimming pool, steam room, sauna, etc).

2 products maximum per direction (bed/or bathroom).

#### Technical characteristics

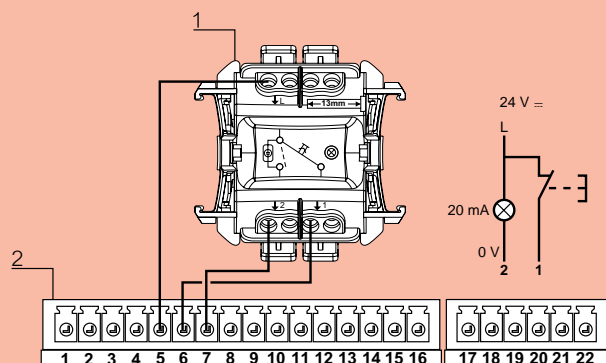
- Power supply: via door unit Cat. No. 0 766 06 or 0 766 07
- Operating temperature: 5 to 40°C
- Antimicrobial
- Protection index: IP 55 - IK 07
- Overall dimensions (H x W): 86 x 86 mm
- Installation: in 1-gang flush-mounting box

#### Flush-mounted wall installation with 1-gang flush-mounting box



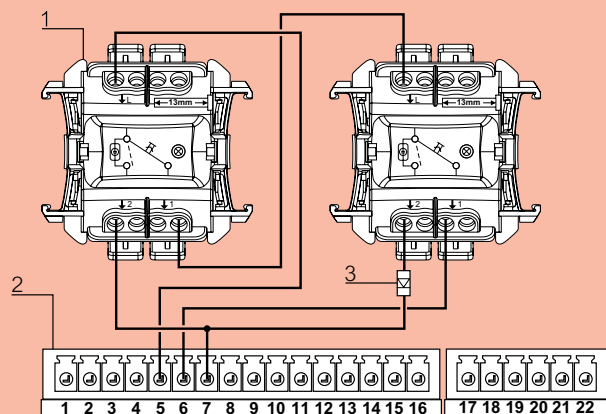
## Connection

- Of call unit for non-standard environments



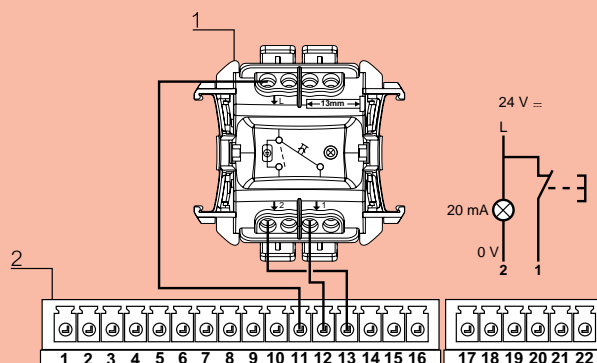
- 1 Waterproof call button terminal block: 0 782 49
- 2 Door unit terminal block: 0 766 06/07

- Of 2 call units for non-standard environments



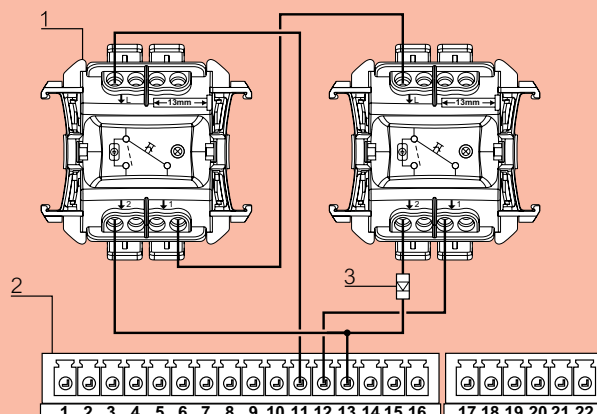
- 1 Waterproof call button terminal block: 0 782 49
- 2 Door unit terminal block: 0 766 06/07
- 3 Diode Cat. No. 1N4007 (50 V 1 A)

- Of bathroom call unit



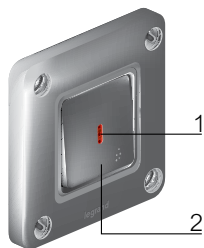
- 1 Waterproof call button terminal block: 0 782 49
- 2 Door unit terminal block: 0 766 06/07

- Of 2 bathroom call units



- 1 Waterproof call button terminal block: 0 782 49
- 2 Door unit terminal block: 0 766 06/07
- 3 Diode Cat. No. 1N4007 (50 V 1 A)

# Device presentation and installation (continued)



- 1 Red call confirmation indicator
- 2 NC call push-button

## CALL DEVICES FOR NON-STANDARD ENVIRONMENTS (CONTINUED)

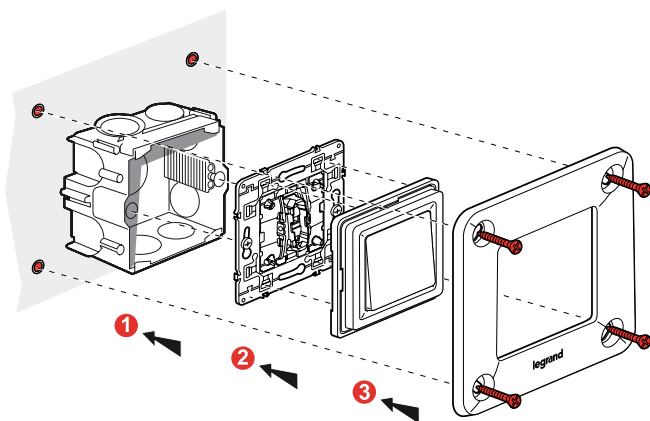
### High-resistance call unit Cat. No. 0 782 51

Suitable for psychiatric and penal institutions, etc.

#### Technical characteristics

- Power supply: via door unit Cat. No. 0 766 06 or 0 766 07
- Operating temperature: 5 to 40°C
- Protection index: IP 55 - IK 10
- Overall dimensions (H x W): 110 x 110 mm
- Installation:
  - in 1-gang flush-mounting box
  - surface-mounted with box Cat. No. 0 778 90

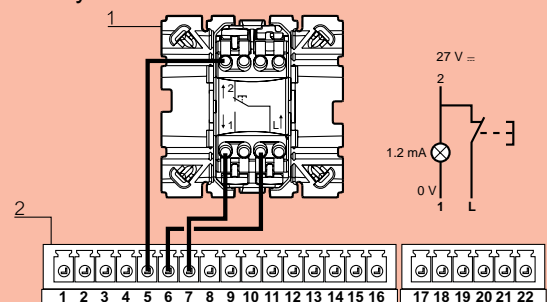
#### Flush-mounted wall installation with 1-gang flush-mounting box



#### Connection

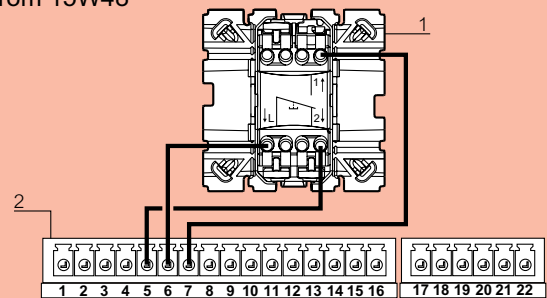
Example: 1 bed/cubicle.

- Currently



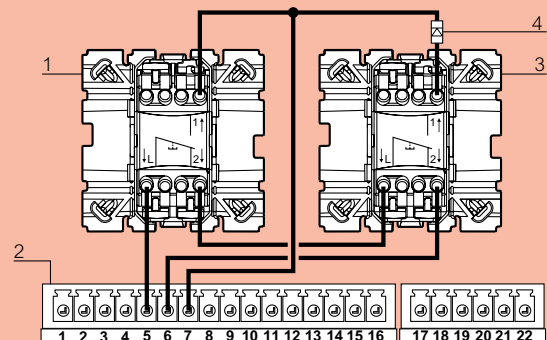
- 1 Soliroc call button terminal block: 0 782 51
- 2 Door unit terminal block: 0 766 06/07

- From 15W48

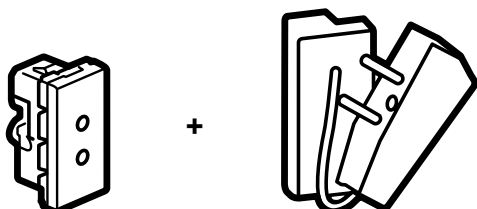


- 1 Soliroc call button terminal block: 0 782 51
- 2 Door unit terminal block: 0 766 06/07

- Of 2 call units for non-standard environments



- 1 and 3 Soliroc call button terminal block: 0 782 51
- 2 Door unit terminal block: 0 766 06/07
- 4 Diode (50 V 1 A)



## BIOMEDICAL CALL DEVICES: SOCKET CAT. NO. 0 771 50 + PLUG CAT. NO. 0 782 07

Signal the end of a cycle via an alarm on the nurse call system.

For connecting portable electrical medical devices such as syringe pumps, respirators, etc.

Comprise:

- **Socket Cat. No. 0 771 50**

- **Shunt plug Cat. No. 0 782 07:**

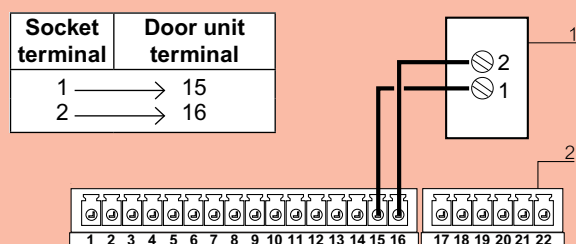
For biomedical alarm standby.

Used with socket Cat. No. 0 771 50.

### Technical characteristics

- Power supply: via door unit Cat. No. 0 766 06 or 0 766 07
- Operating temperature: 5 to 40°C
- Protection index: IP 20
- Overall dimensions (H x W): 45 x 22.5 mm
- Installation:
  - in 1-gang flush-mounting box with universal Batibox support Cat. No. 0 802 51
  - surface-mounted with box Cat. No. 0 802 81 and universal Batibox support Cat. No. 0 802 51
  - can be installed in trunking, or in bedhead strips or trunking units

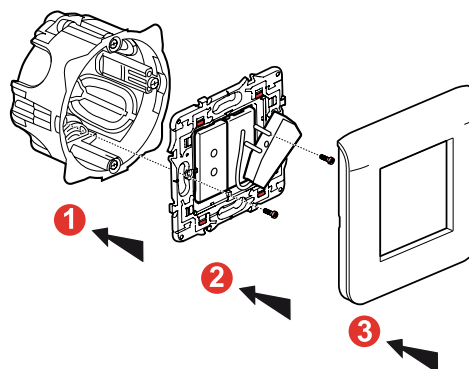
### Connection



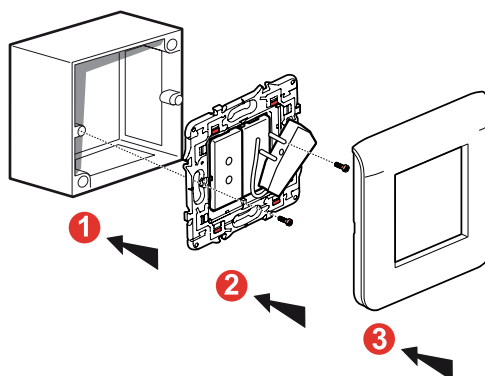
1 Biomedical call socket terminal block: 0 771 50

2 Door unit terminal block: 0 766 06/07

### Flush-mounted wall installation in 1-gang flush-mounting box with support Cat. No. 0 802 51

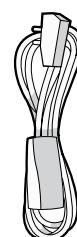


### Flush-mounted wall installation in 1-gang flush-mounting box with support Cat. No. 0 802 51



### Application example for nursing home/residential care home

A push-button cord can be included for the armchair call unit.



0 783 62

# Device presentation and installation (continued)



## CORRIDOR OVERDOOR LIGHT UNITS

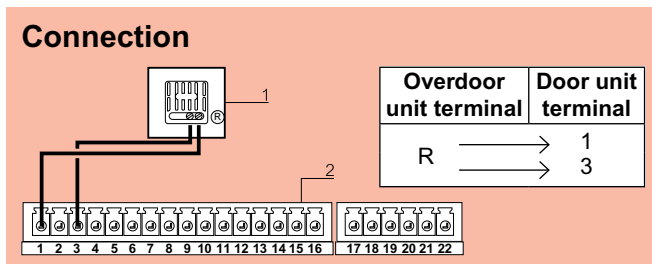
Ensure that room status information is visible in the corridor.  
For installation above doors.

### Call only corridor overdoor light unit Cat. No. 0 766 71

For call signalling (1 call).

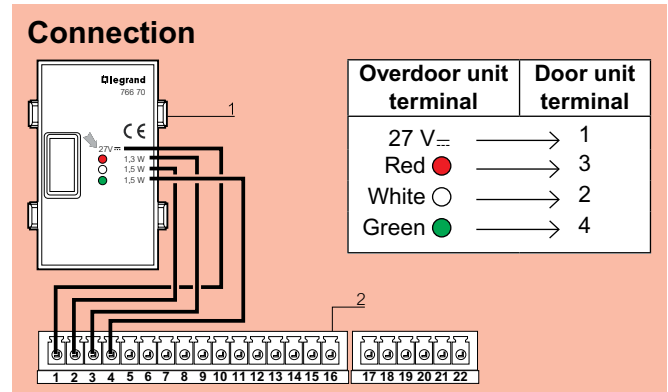
### Call and nurse presence corridor overdoor light unit Cat. Nos. 0 766 70 and 0 766 76

Used to signal calls, bathroom calls and nurse presence.  
Triangular LED light units.  
Recommended for compliance with VDE 0834-1, 0834-2  
and DIN 41050 standards.



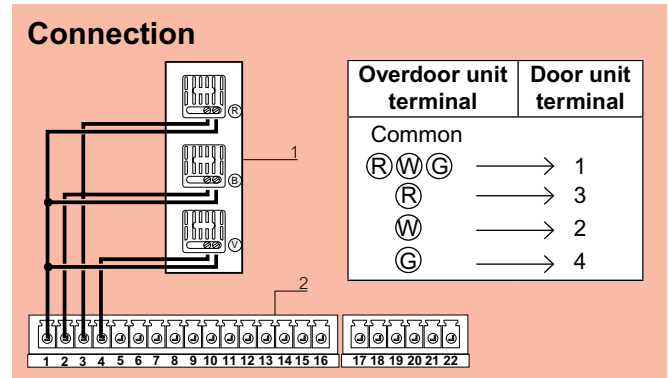
- 1 Overdoor unit terminal block: 0 766 71
- 2 Door unit terminal block: 0 766 06/07

Cat. No. 0 766 70



- 1 Monobloc overdoor light unit terminal block: 0 766 70
- 2 Door unit terminal block: 0 766 06/07

Cat. No. 0 766 76

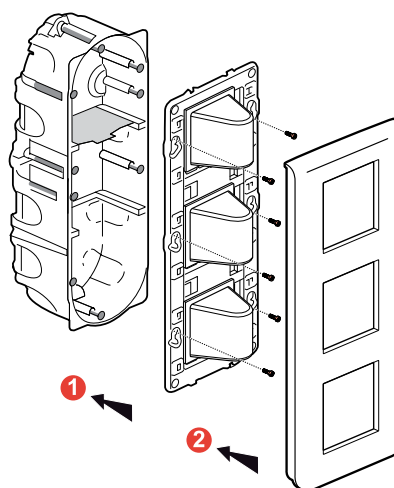


- 1 Red, white, green overdoor light unit terminal block: 0 766 76
- 2 Door unit terminal block: 0 766 06/07

### Technical characteristics

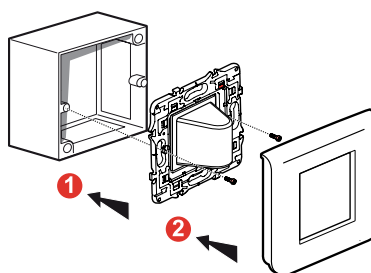
- Power supply: 27 V<sub>±</sub> (via indicator power supply)
- Operating temperature: 5 to 40°C
- Protection index: IP 20
- Dimensions (H x W):
  - 0 766 71: 82 x 82 mm
  - 0 766 70: 114 x 77.5 mm
  - 0 766 76: 153 x 82 mm
- Installation:
  - in flush-mounting box
    - 1-gang for Cat. No. 0 766 71
    - 1-gang for Cat. No. 0 766 70
    - 3-gang for Cat. No. 0 766 76
  - surface-mounted
    - with box Cat. No. 0 802 81 for Cat. No. 0 766 71
    - with box Cat. No. 0 802 83 for Cat. No. 0 766 76

Principle for Cat. No. 0 766 76



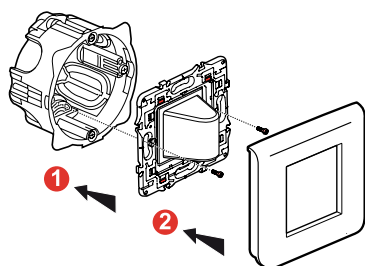
Surface-mounted wall installation with box

Principle for Cat. No. 0 766 71

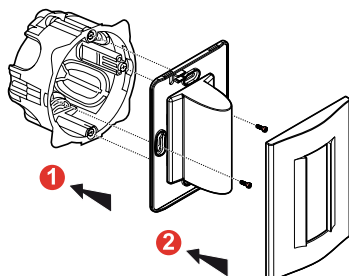


Flush-mounted wall installation in flush-mounting box

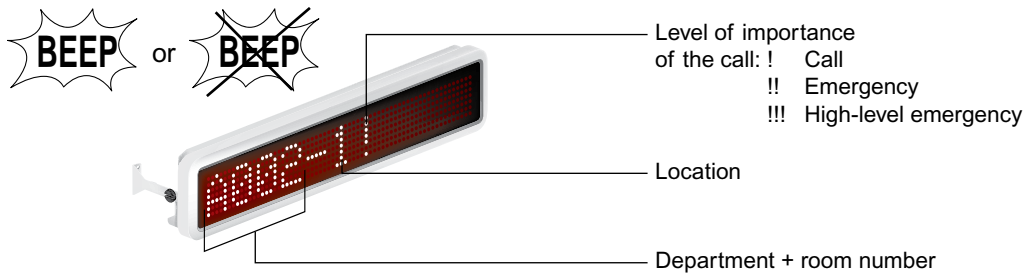
Principle for Cat. No. 0 766 71



Principle for Cat. No. 0 766 70



# Device presentation and installation (continued)



## CORRIDOR DISPLAY UNITS CAT. NOS. 0 766 04 AND 0 766 05

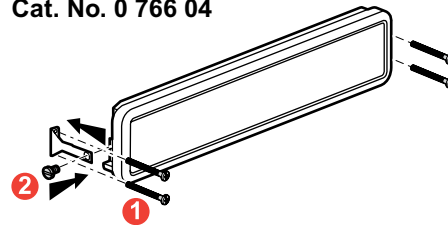
Indication of calls and nurse presence by priority level.  
For installation in the corridor.  
Supplied with power supply and interface.

**Single display unit Cat. No. 0 766 04 and double display unit Cat. No. 0 766 05**

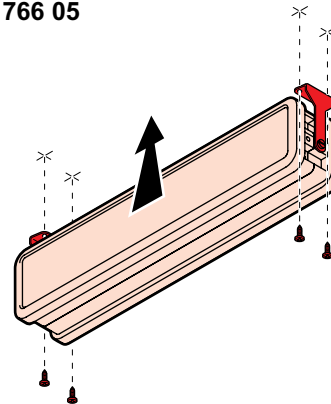
### Technical characteristics

- Power supply: 27 V<sub>±</sub>
- Max. consumption: 0 766 04: 8 W  
0 766 05: 16 W
- Operating temperature: 5 to 40°C
- Protection index: IP 42
- Dimensions (H x W x D): 108 x 518 x 47 mm (0 766 04)  
108 x 515 x 94 mm (0 766 05)
- Installation:
  - ceiling-mounted or wall-mounted
  - projecting using accessory Cat. No. 0 766 03
- Sound level: 55 dB(A) at 2 m

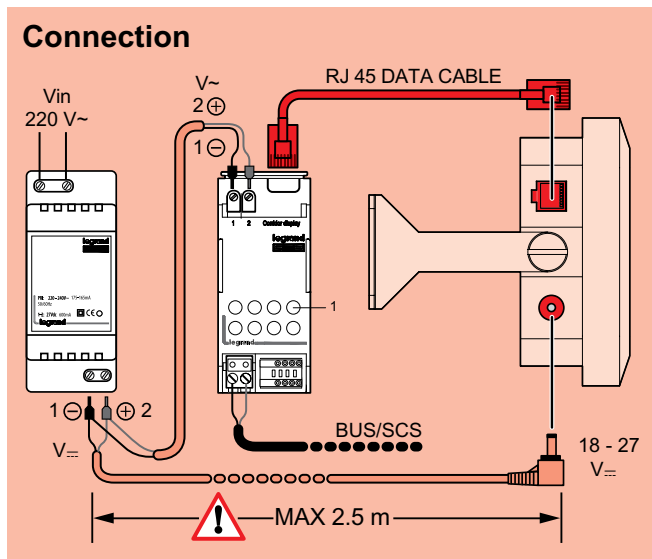
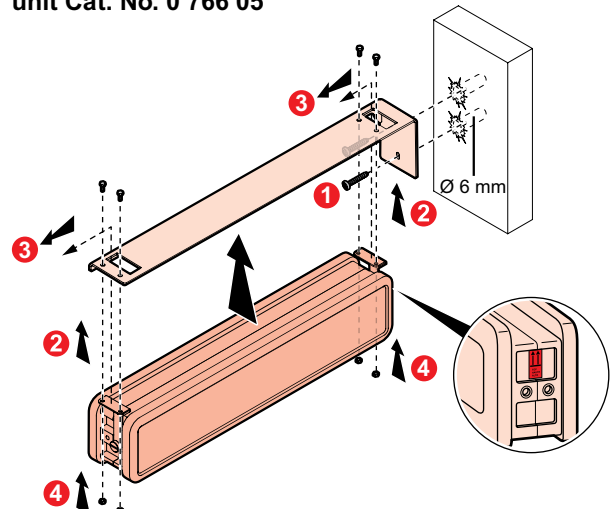
**Wall-mounted installation of single display unit Cat. No. 0 766 04**



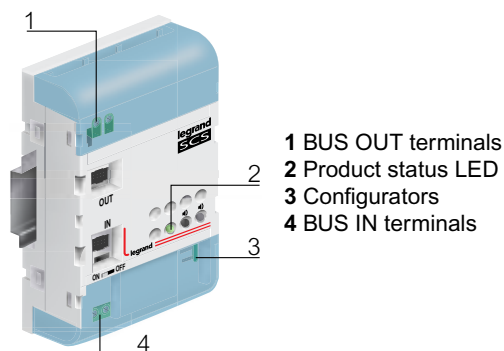
**Ceiling-mounted installation of double display unit Cat. No. 0 766 05**



**Projecting installation with accessory 0 766 03 for single display unit Cat. No. 0 766 04 or double display unit Cat. No. 0 766 05**



1 Virtual configuration button



- 1 BUS OUT terminals
- 2 Product status LED
- 3 Configurators
- 4 BUS IN terminals



## BUS/SCS EXTENSION CAT. NO. 0 766 10

The BUS/SCS extension can be used to communicate information between two BUS/SCS nurse call systems. It is used where departments are grouped together or for departments of more than 50 rooms. It has two bus linking terminals, marked IN and OUT. The front panel has a 'C' button for virtual configuration and an LED indicator:

- Correct power supply and configuration (on steady)
- BUS not connected (off)
- Missing or incorrect configuration (flashing)

No declaration button for virtual configuration (use the ID).

With virtual configuration in standalone mode, use the power supply for kit 0 766 16 (on the IN input) + a second external BUS/SCS power supply (on the OUT output).

### Technical characteristics

- Power supply: 27 V<sub>DC</sub>
- BUS power supply consumption during operation: 40 mA
- Operating temperature: 5 to 40°C
- Dimensions: 4 DIN modules

**Gateway version:** Within a building allows extension of the number of departments (floors) by connection on the vertical bus (see Maximum of: 14 products connected on the vertical bus).

**Repeater version:** Within a department (Cat. No. 0 766 11) allows extension of the length of the BUS/SCS or an increase in the number of rooms. Maximum of: 2 devices per bus (on each floor).

## TRACEABILITY SOFTWARE CAT. NO. 0 766 18

This software is used to memorise and record the date and time of events and also categorise them according to type (calls, nurse presence, acknowledgment, etc). For installation on a PC connected to the traceability interface Cat. No. 0 766 17 via the USB (type A) - mini-USB (type A) cable.

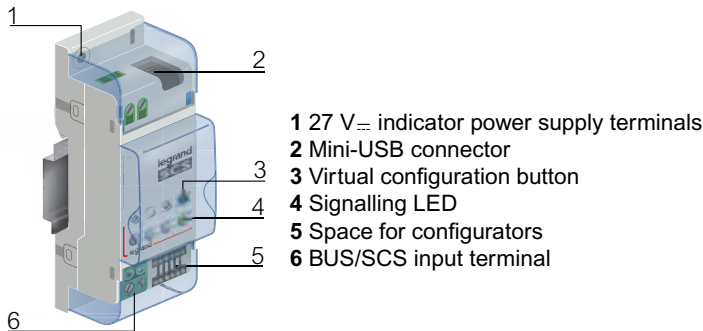
The software can be installed on a number of workstations.

### Minimum system requirements

- PC equipped with a Pentium processor (1 GHz minimum)
- 512 MB (XP) or 1 GB (Vista/7) of RAM
- SVGA graphics card with 800 x 600 resolution, 256 colours
- 500 MB of hard disk space
- CD-ROM drive
- Mouse
- Windows XP (32-bit) Service Pack 2, Vista (32 and 64-bit), Windows 7 (32 and 64-bit)
- Microsoft .NET Framework 4.0
- A spreadsheet compatible with .csv files (eg: Excel, etc)
- Internet access for remote control and troubleshooting

The instructions for the traceability software can be found on the software CD.

# Device presentation and installation (continued)



## System requirements:

- PC with Pentium processor  $\geq$  1 GHz
- RAM: 512 MB (XP) or 1 GB (Vista/7)
- SVGA graphics card with 800x600 pixels, 256 colours
- 500 MB of hard disk space available
- CD-ROM drive
- Mouse
- Windows XP (32-bit) Service Pack 2, Vista (32 and 64-bit), Windows 7 (32 and 64-bit)
- Microsoft .NET Framework 4.0
- A spreadsheet compatible with .csv files (eg: Excel, etc)
- Internet access for remote control and troubleshooting

## TRACEABILITY INTERFACE CAT. NO. 0 766 17

This interface is used to memorise events (up to 100,000 events: calls from patient rooms, calls from bathrooms, nurse presence and mute setting, biomedical alarm, system error, etc) that happen in a department. The information is saved directly onto the device. The data can either be downloaded, or sent via RSS feed using the software Cat. No. 0 766 18 via the USB port.

After the 100,000<sup>th</sup> event, depending on the chosen parameter setting, either no more records are possible, or the oldest records are overwritten.

USB (type A) - mini-USB (type A) cable supplied (length 1.8 m).

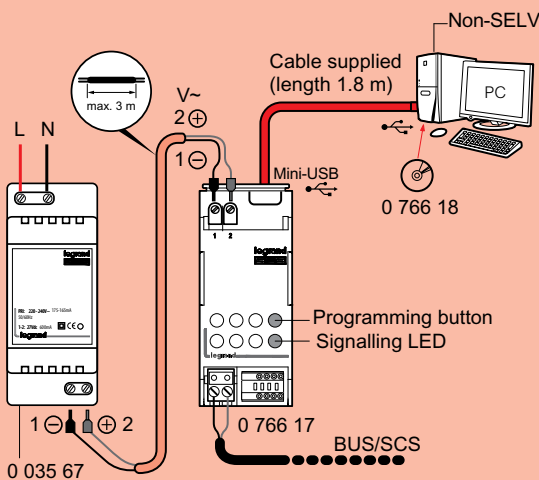
**⚠** To have the traceability function, 1 interface must be installed per department (1 interface cannot cover several departments, as it is monitored by the main control unit in its department).

## Technical characteristics

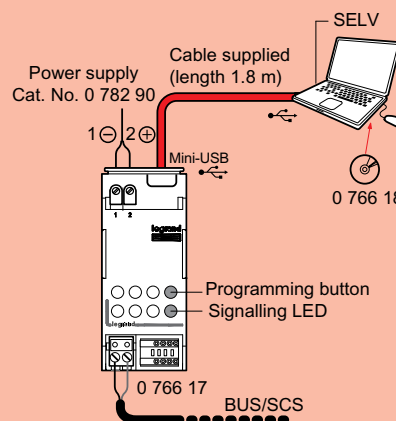
- Power supply: 27 V $\approx$
- Indicator power supply consumption: 30 mA
- Bus power supply consumption: 4.5 mA
- Operating temperature: 5 to 40°C
- Dimensions: 2 DIN modules

## Connection

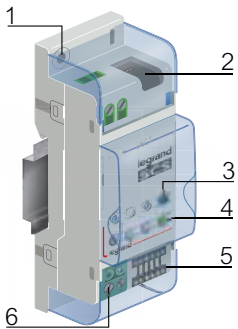
### • Non-SELV



### • SELV



**⚠** To find out whether your computer is SELV or not, please refer to its power supply characteristics.



- 1 27 V<sub>~</sub> indicator power supply terminals
- 2 RJ11 ESPA 4.4.4. connector
- 3 Virtual configuration button
- 4 Signalling LED
- 5 Space for configurators
- 6 BUS/SCS input terminal

## DECT INTERFACE CAT. NO. 0 766 19

This interface allows events to be transferred from the BUS system to the DECT system using the ESPA 4.4.4. protocol.

**⚠** To have the DECT function, 1 interface must be installed per department (1 interface cannot cover several departments, as it is monitored by the main control unit in its department).

### Technical characteristics

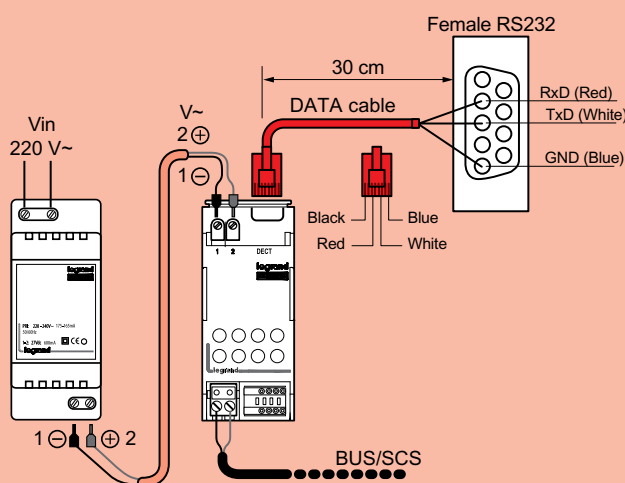
- Power supply: 27 V<sub>~</sub>
- Indicator power supply consumption: 30 mA
- Bus power supply consumption: 4.5 mA
- Operating temperature: 5 to 40°C
- Dimensions: 2 DIN modules

### Communication settings

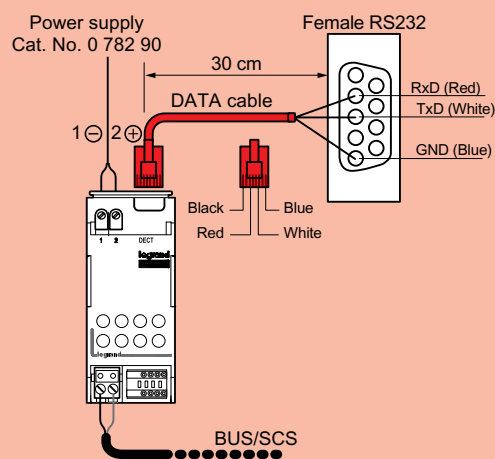
- Speed: 9600 bauds
- Data bits: 7
- Parity: even
- Stop bit: 1

### Connection

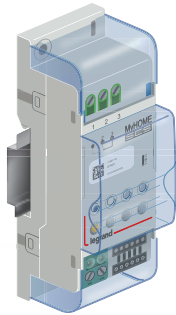
• Non-SELV (telephone coupler not certified SELV)



• SELV (telephone coupler certified SELV)



# Device presentation and installation (continued)





## INFORMATION FEEDBACK INTERFACE CAT. NO. 0 766 78

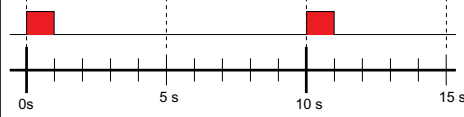
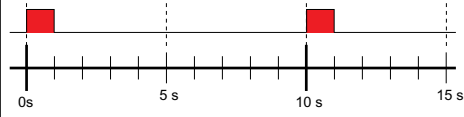
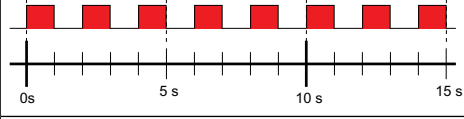
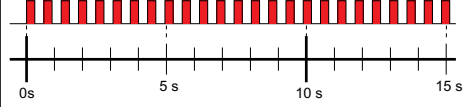
This contact interface allows visual or audible information to be fed back from a given department to a remote area a long way from this department (eg: corridor, etc).  
For installation in the place where feedback needs to happen.

### Technical characteristics

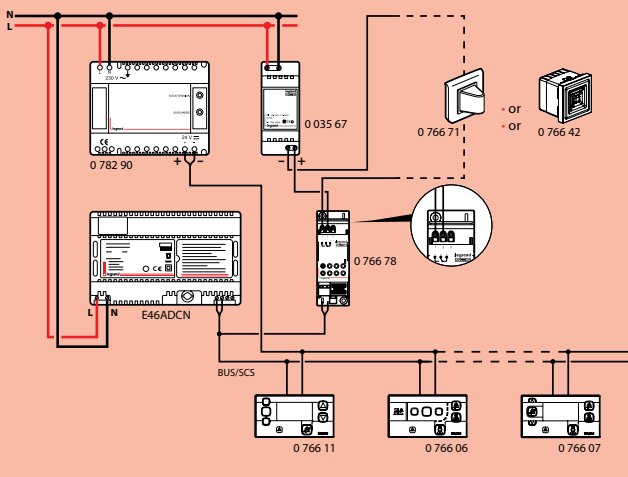
- Power supply: 27 V<sub>DC</sub>
  - Bus power supply consumption:
    - standby mode: 15 mA
    - max. 47 mA
  - Operating temperature: 5 to 40°C
  - Dimensions: 2 DIN modules
- Double-insulated SELV safety device

		
110 V <sub>~</sub>	440 VA	440 VA
230 V <sub>~</sub>	920 VA	920 VA
12 V <sub>DC</sub> /~	48 VA	48 VA
48 V <sub>DC</sub> /~	192 VA	192 VA
	4 A	4 A

### Audible information feedback (from buzzer Cat. No. 0 766 42)


Audible signal types	Description
	Patient call
	Bathroom call
	Emergency call
	High-level emergency call

### Connection



### Visual information feedback (from indicator Cat. No. 0 766 71)

When a patient makes a call, regardless of its importance, the indicator lights up and stays on with a steady light until acknowledged by the nurse.

 This type of feedback does not take the call urgency into account



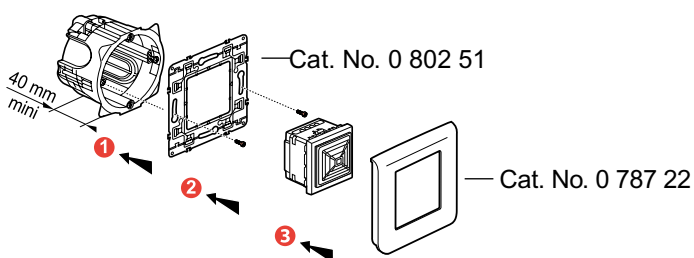
## ELECTRONIC BUZZER CAT. NO. 0 766 42

Associated with an information feedback interface Cat. No. 0 766 78, this buzzer allows audible feedback of a call for amplification or feedback to a remote area.

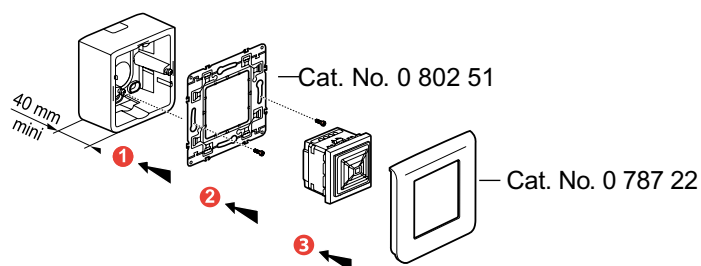
### Technical characteristics

- Power supply: 27 V<sub>DC</sub> (via power supply Cat. No. 0 035 67)
- Consumption: 9 mA
- Operating temperature: -10°C to +55°C
- Protection index: IP 41-IK 05
- Sound level: 80 dB(A) at 1 m
- Overall dimensions (H x W): 45 x 45 mm

### Flush-mounted wall installation in 1-gang screw flush-mounting box



### Surface-mounted wall installation with box Cat. No. 0 802 81



## Device presentation and installation (continued)



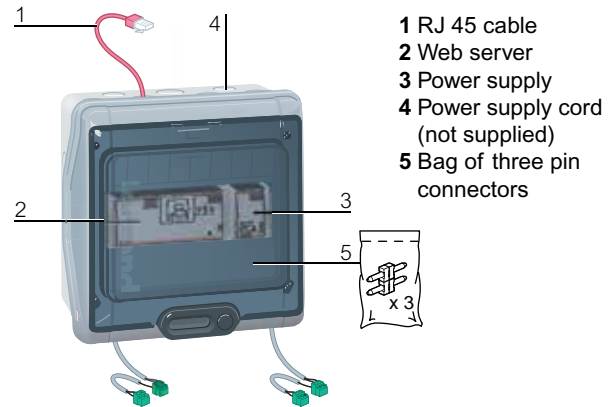
### NURSE CALL CONFIGURATOR SOFTWARE CAT. NO. 0 766 15

This software is used for virtual configuration of the installation.

Used with configuration kit Cat. No. 0 766 16.

#### Minimum system requirements

- PC equipped with a Pentium processor (2 GHz minimum)
- 512 MB (XP) or 1 GB (Vista/7) of RAM
- SVGA graphics card with 800 x 600 resolution, 256 colours
- 500 MB of hard disk space
- CD-ROM drive
- Mouse
- Windows XP (32-bit) Service Pack 2, Vista (32 and 64-bit)
- Microsoft .NET Framework 3.5

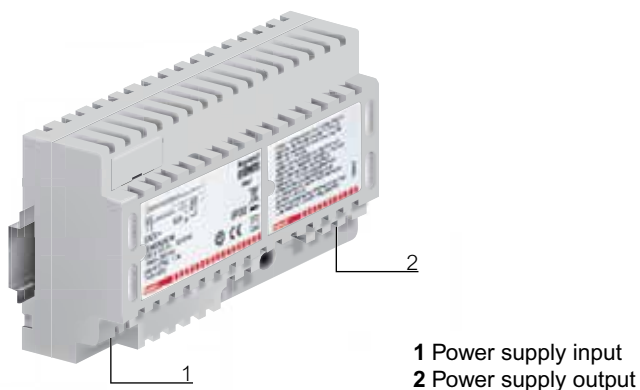


### CONFIGURATION KIT CAT. NO. 0 766 16

This kit is used to configure hospital system products. To do this, it needs to be connected to a PC equipped with the Nurse Call Configurator software (0 766 15). It can be used independently of the installation (standalone) or connected to the existing installation.

#### Technical characteristics

- Supply voltage: 220 - 240 V $\sim$  - 50/60 Hz
- Output voltage: 27 V $\equiv$
- Operating temperature: 0°C to 45°C
- Conforms to NF C 15-100



1 Power supply input  
2 Power supply output

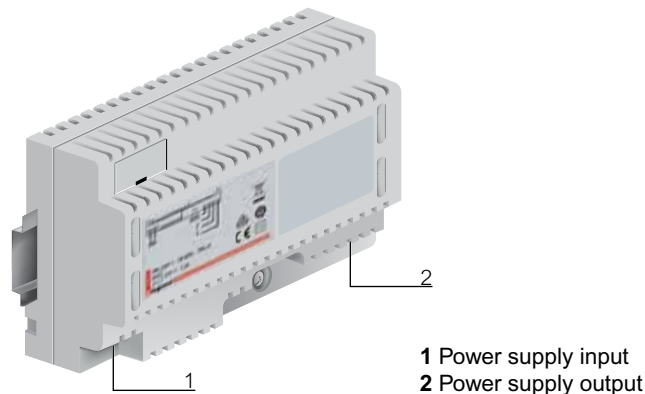
### BUS/SCS POWER SUPPLY CAT. NO. 0 035 60 OR E46ADCN

The power supply should be used to power the system's communication bus (BUS/SCS). It also allows operation in a degraded mode, if the indicator power supply is no longer detected. Bus communication will therefore continue to work, but not the individual local indicators.  
Double-insulated SELV safety device.

#### Technical characteristics

- Supply voltage: 230 V $\sim$   $\pm$  10% – 50/60 Hz
- BUS output voltage: 27 V $\equiv$
- BUS max. current: 1.2 A
- Max. dissipated power: 11 W
- Max. consumption: 43.4 W
- Operating temperature: 5 to 40°C
- Protection index: IP 30
- Dimensions: 8 DIN modules
- Recommendation:  
**1 BUS power supply maximum for 50 directions\***

\* Direction: room from which calls originate



1 Power supply input  
2 Power supply output

### BUS/SCS POWER SUPPLY FOR INTERPHONES CAT NO. 0 634 35 OR 346000

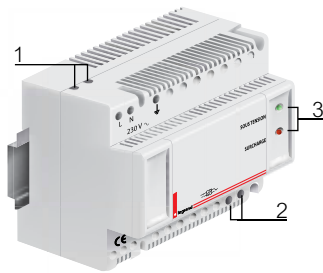
The power supply should be used to power the system's communication bus (BUS/SCS) in instances of installations with an interphone unit. It also allows operation in a degraded mode, if the indicator power supply is no longer detected. Bus communication will therefore continue to work, but not the individual local indicators.  
Double-insulated SELV safety device.

#### Technical characteristics

- Supply voltage: 230 V $\sim$
- BUS output voltage: 27 V $\equiv$
- BUS max. current: 1.2 A
- Max. dissipated power: 11 W
- Max. consumption: 43.4 W
- Operating temperature: 5 to 40°C
- Protection index: IP 30
- Dimensions: 8 DIN modules
- Recommendation:  
**1 BUS power supply maximum for 50 directions\***

\* Direction: room from which calls originate

## Device presentation and installation (continued)



- 1 Power supply input
- 2 Output
- 3 Signalling LED
  - Green LED = normal operation
  - Red LED = overload



### INDICATOR POWER SUPPLY CAT. NO. 0 782 90

This power supply should be used to power signalling indicators and those on door units, nurses' control units, overdoor light units, etc.  
Double-insulated SELV safety device.

#### Technical characteristics

- Supply voltage: 230 V $\sim$   $\pm$  10% – 50/60 Hz
- Output voltage: 29 V $\equiv$
- Max. current: 2 A
- Max. consumption: 64.5 W
- Operating temperature: 5 to 40°C
- Protection index: IP 30
- Dimensions: 6 DIN modules
- Installation without interphones:  
**1 power supply for 25 directions\***
- Installation with interphones:  
**1 power supply for 16 directions\***

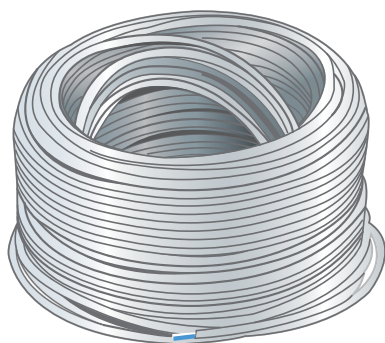
\* Direction: room from which calls originate

### AUXILIARY POWER SUPPLY CAT. NO. 0 035 67

Used to supply DECT interface Cat. No. 0 766 19, traceability interface Cat. No. 0 766 17 and corridor display units Cat. Nos. 0 766 04/05.  
Double-insulated SELV safety device.

#### Technical characteristics

- Supply voltage: 230 V $\sim$
- BUS output voltage: 27 V $\equiv$
- BUS max. current: 600 mA
- Max. power: 21.5 W
- Max. consumption: 26.8 W
- Operating temperature: 5 to 40°C
- Protection index: IP 20
- Dimensions: 2 DIN modules

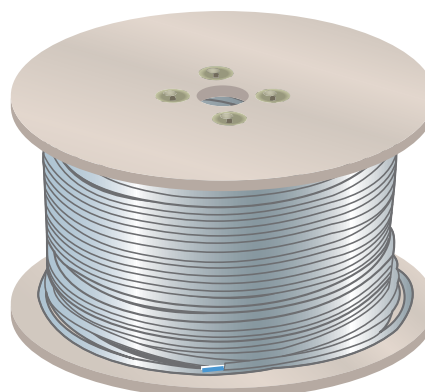


### CABLE CAT. NO. 0 492 33

Halogen-free BUS/SCS cable used to connect communicating products in the nurse call system.

#### Technical characteristics

- Sheath colour: white
- Outer diameter: max: 5 mm
- Number of wires: 2 flexible twisted wires (white, blue)
- Wire cross-section: 0.5 mm<sup>2</sup>
- Electrical resistance: less than 72 Ω/km
- Operating temperature: -15°C, + 70°C
- Length: 200 m



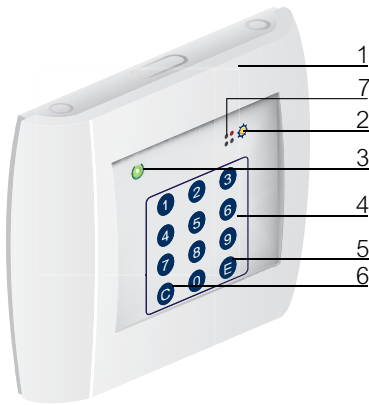
### CABLE CAT. NO. 0 492 73

Halogen-free BUS/SCS cable used to connect communicating products in the nurse call system.

#### Technical characteristics

- Sheath colour: white
- Outer diameter: max: 5 mm
- Number of wires: 2 flexible twisted wires (white, blue)
- Wire cross-section: 0.5 mm<sup>2</sup>
- Electrical resistance: less than 72 Ω/km
- Operating temperature: -15°C, + 70°C
- Length: 500 m

# Device presentation and installation (continued)



- 1 Wrist strap activation magnet
- 2 Detection LED (orange)
- 3 Status LED (green)
- 4 Code keypad
- 5 Enter key
- 6 Cancel key
- 7 Buzzer

## SECURE WANDERING DEVICE

Signals that a door has been crossed by a resident fitted with a wrist strap Cat. No. 0 766 20.

Works with door unit Cat. No. 0 766 06 configured for secure wandering and allowing acknowledgement.

### Door controller Cat. No. 0 766 22

The door controller retrieves information from antenna Cat. No. 0 766 21 and door contact Cat. No. 0 431 00 and either triggers a nurse call or locks the door, depending on its operating mode.

If the door is locked, it can be unlocked using special codes.

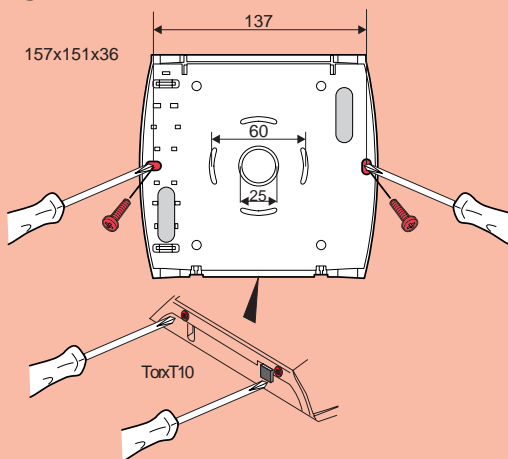
The coded keypad picks up the wrist strap signal when a resident passes through a predefined door.

Requires a 12 V<sub>DC</sub> modular power supply.

### Technical characteristics

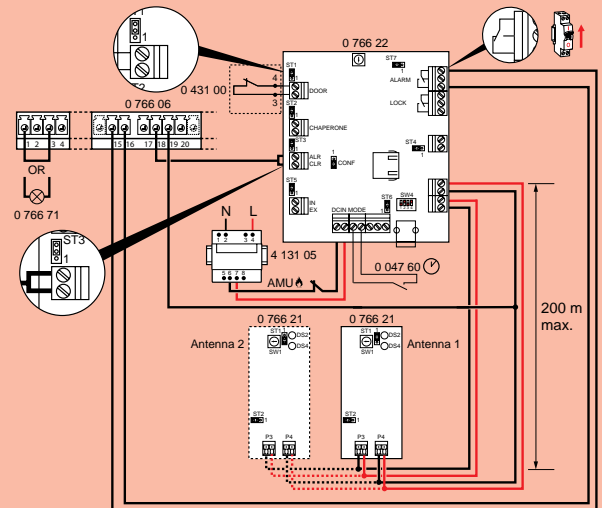
- Power supply: 12 V<sub>DC</sub>
- Dimensions (H x W x D): 120 x 150 x 50 mm
- Wall-mounted with screws

### Fixing

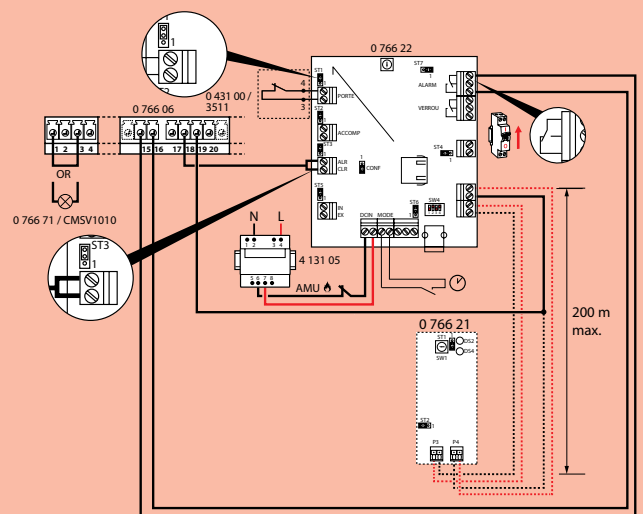


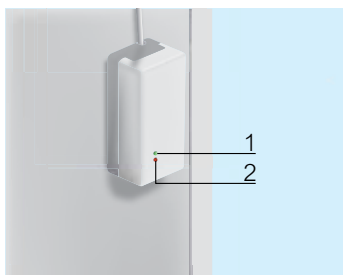
### Connection

- From 11W45 to 15W27



- From 15W28

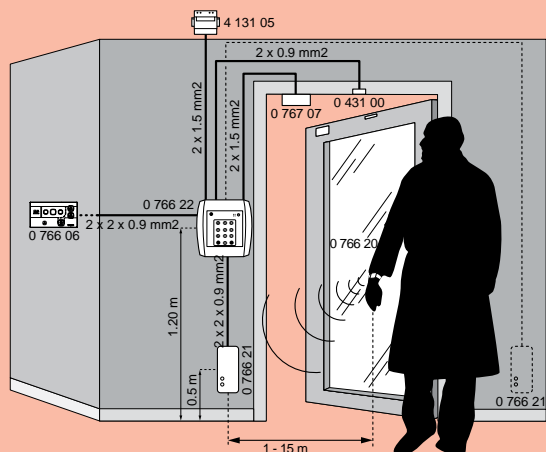




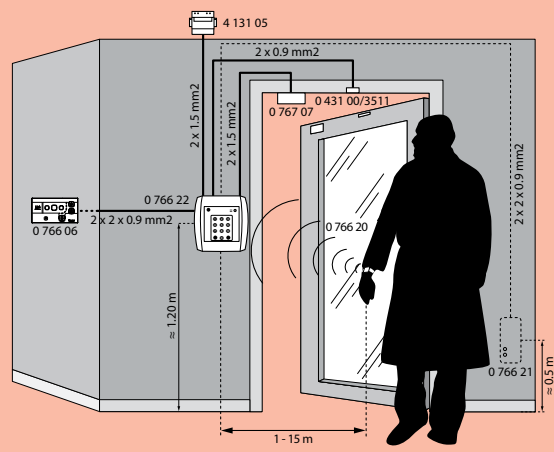
- 1 Status LED (green)
- 2 Detection LED (red)

## Mounting

- From 11W45 to 15W27



- From 15W28



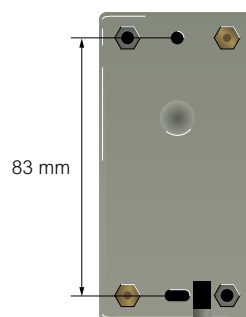
## Antenna Cat. No. 0 766 21

Receives the wrist strap signal and transmits it to the controller Cat. No. 0 766 22. It is possible to adjust the antenna's range (approx. 1 to 15 m).

### Technical characteristics

- Power supply: via door controller Cat. No. 0 766 22
- Dimensions (H x W x D): 50 x 100 x 40 mm
- Wall-mounted with screws

### Fixing



## Wristband Cat. No. 0 766 20 (17W01)

Fitted with an 869 MHz radio transmitter.  
Permanent fixing.  
Commissioning: see the secure wandering manual LE04653..  
The batteries should be changed every year.



### Technical characteristics

- IP 67
- Anti-allergy
- Colour: white transmitter and black wrist strap



# Operating modes

## CALL + NURSE PRESENCE

---

This is the basic programme for all hospital signalling installations. It provides all essential functions as standard, and can be extended with Secure Wandering and Interphone functions.

### Scenario 1:

#### 1- Patient calls from the room



The patient calls by pressing a button on the hand-held remote control unit.



The door unit signals the call and emits an audible alarm.

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#### 2- Nurse present in the room



The nurse signals their presence on the door unit.



The door unit stops the audible alarm.

---

#### 3- Nurse hangs up the call



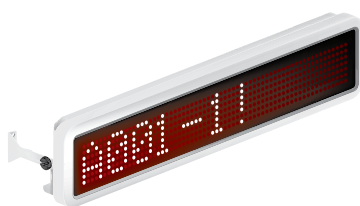
The nurse signals that the call has been dealt with.



The door unit turns off.



The red indicator on the corridor light unit is on steady.



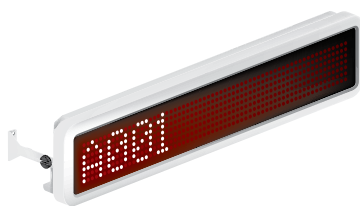
The corridor display unit signals the room making a call.



The nurses' station control unit signals the room making a call and emits an audible alarm.



The green indicator on the corridor light unit is also on steady.



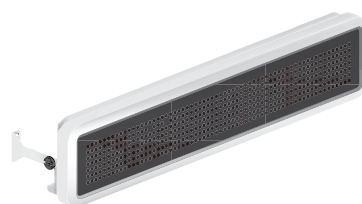
The corridor display unit signals the presence of a nurse.



The nurses' station control unit signals the nurse's presence in the room.



All indicators on the corridor light unit switch off.



The corridor display unit no longer signals this call.



The nurses' station control unit no longer signals this call.

# Operating modes (continued)

## BATHROOM CALL + NURSE PRESENCE

### Scenario 2:

#### 1- Patient calls from the bathroom



The door unit signals the call and emits an audible alarm.

#### 2- Nurse present in the room



The nurse signals their presence on the door unit.



The door unit switches off the audible alarm.

#### 3- Nurse hangs up the call



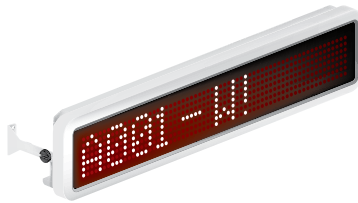
The nurse signals that the call has been dealt with.



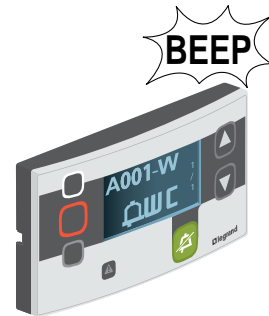
The door unit turns off.



The red and white indicators on the corridor light unit come on with a steady light.



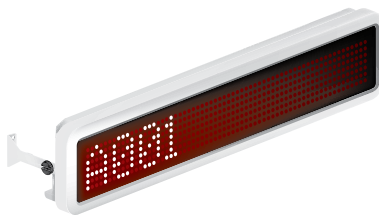
The corridor display unit signals the room making a call (bathroom call signalled).



The nurses' station control unit signals the room making a call.



The green indicator on the corridor light unit also comes on with a steady light.



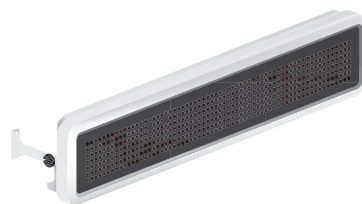
The corridor display unit signals the presence of a nurse.



The nurses' station control unit signals the nurse's presence in the room.



All indicators on the corridor light unit switch off.



The corridor display unit no longer signals this call.



The nurses' station control unit no longer signals this call.

# Operating modes (continued)

## CALL + NURSE PRESENCE + NURSE ASSISTANCE (EMERGENCY CALL)

### Scenario 3:

- 1- Patient calls from the room (see scenario 1 Call + Nurse Presence)
- 2- Nurse present in the room
- 3- Nurse requests assistance



The nurse requests assistance from another nurse by pressing the call button on the door unit.

OR



The nurse requests assistance from another nurse by pressing the call button on the hand-held remote control unit.



The call button begins to flash red and emits a rapid audible alarm.

### 4 - Presence of nurse assistance in the room



The second nurse signals her presence on the door unit.

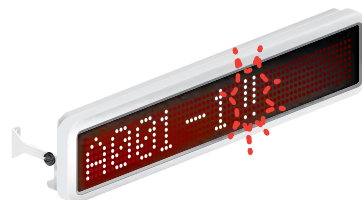


The door unit switches off the audible alarm.

### 5 - Call is hung up (see scenario 1 Call + Nurse Presence)



The red indicator flashes and the green indicator remains on with a steady light.



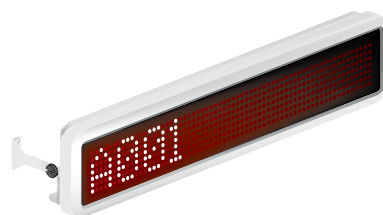
The corridor display unit signals the room making the call.



The nurses' station control unit signals the room making a call and emits a more rapid audible alarm.



The red and green indicators on the corridor light unit come on with a steady light.



The corridor display unit no longer signals this call.



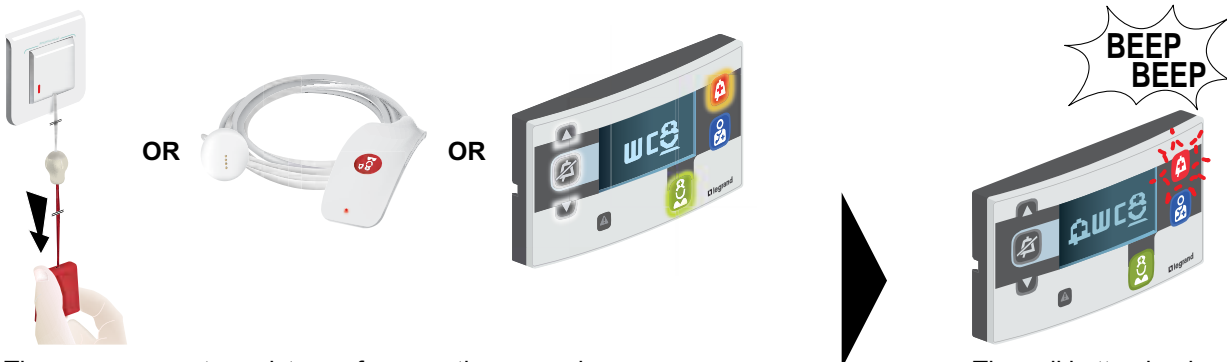
The nurses' station control unit no longer signals this call.

# Operating modes (continued)

## BATHROOM CALL + NURSE PRESENCE + NURSE ASSISTANCE (EMERGENCY CALL)

### Scenario 4:

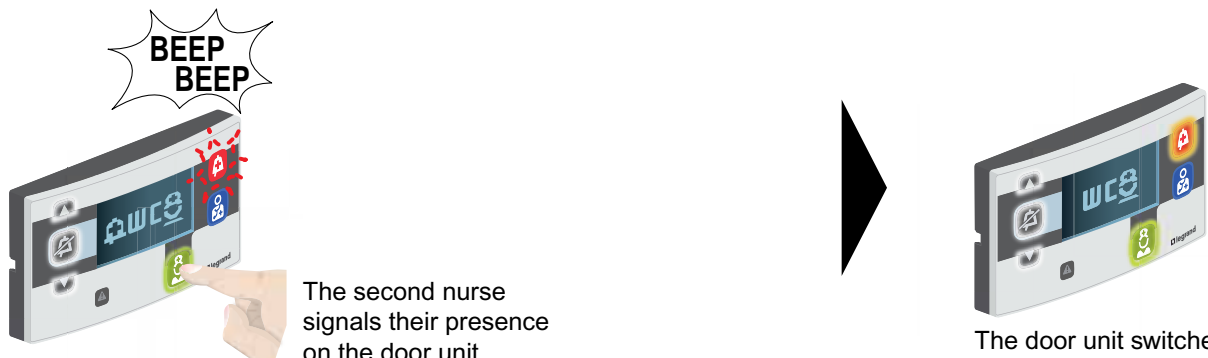
- 1- Patient calls from the bathroom (see scenario 2 Bathroom Call + Nurse Presence)
- 2- Nurse present in the room
- 3- Nurse requests assistance



The nurse requests assistance from another nurse by making a call using the bathroom pull-cord, the call button on the hand-held remote control unit or the call button on the door unit.

The call button begins to flash red and emits a rapid audible alarm.

### 4- Nurse assistance present in the room



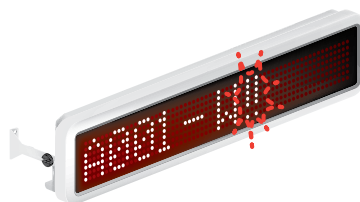
The second nurse signals their presence on the door unit.

The door unit switches off the audible alarm.

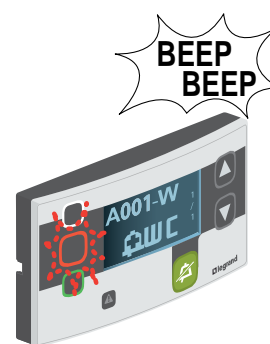
### 5- Call is hung up (see scenario 2 Bathroom Call + Nurse Presence)



The red indicator flashes and the green and white indicators remain on with a steady light.



The corridor display unit signals the room making a call (bathroom call signalled).



The nurses' station control unit signals the room making a call and emits a more rapid audible alarm.



The red and green indicators on the corridor light unit come on with a steady light.



The corridor display unit no longer signals this call.



The nurses' station control unit no longer signals this call.

# Operating modes (continued)

## CALL + NURSE PRESENCE + HIGH-LEVEL EMERGENCY CALL (DOCTOR OR CRASH TEAM)

---

### Scenario 5:

- 1- Patient calls from the room (see scenario 1)
- 2- Nurse present in the room (see scenario 1)
- 3- Nurse requests high-level assistance (doctor or crash team)



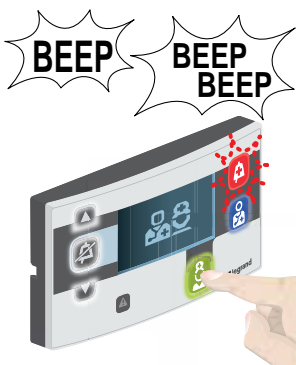
The nurse requests high-level emergency assistance by pressing the call button on the door unit.



The call button begins to flash and emits a very rapid audible alarm.

---

### 4- Medical professionals present in the room



The medical professionals signal their presence on the door unit.

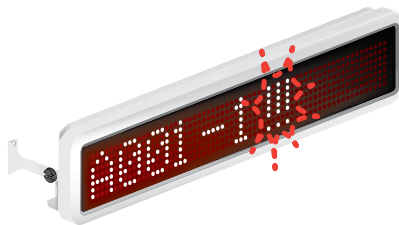


The door unit switches off the audible alarm.

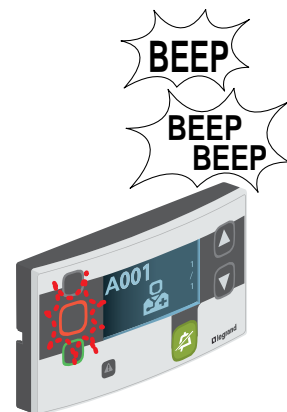
### 5- Call is hung up (see scenario 1 Call + Nurse Presence)



The red indicator flashes quickly.



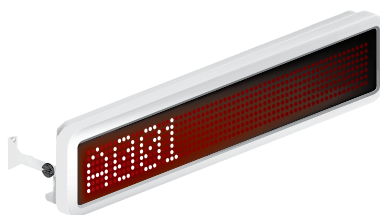
The corridor display unit signals the room making the call.



The nurses' station control unit signals the room making a call and emits a more rapid audible alarm.



The red indicator on the corridor light unit is on steady.



The corridor display unit no longer signals this call.



The nurses' station control unit no longer signals this call.

# Operating modes (continued)

## BATHROOM CALL + NURSE PRESENCE + HIGH-LEVEL EMERGENCY CALL (DOCTOR OR CRASH TEAM)

### Scenario 6:

- 1- Patient calls from the room (see scenario 2)
- 2- Nurse present in the room (see scenario 2)
- 3- Nurse requests high-level assistance



The nurse requests high-level emergency assistance by pressing the call button on the door unit.



The door unit signals the call and emits a very rapid audible alarm.

### 4- Medical professionals present in the room



The medical professionals signal their presence on the door unit.

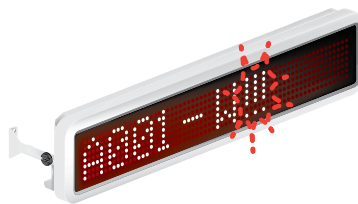


The door unit switches off the audible alarm.

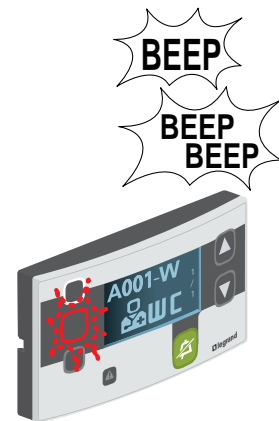
### 5- Call is hung up (see scenario 1 Call + Nurse Presence)



The red indicator flashes quickly.



The corridor display unit signals the room making a call (bathroom call signalled).



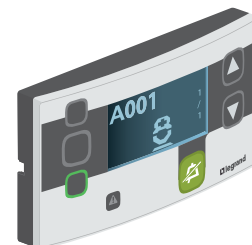
The nurses' station control unit signals the room making a call and emits a more rapid audible alarm.



The red and white indicators on the corridor light unit come on with a steady light.



The corridor display unit no longer signals this call.



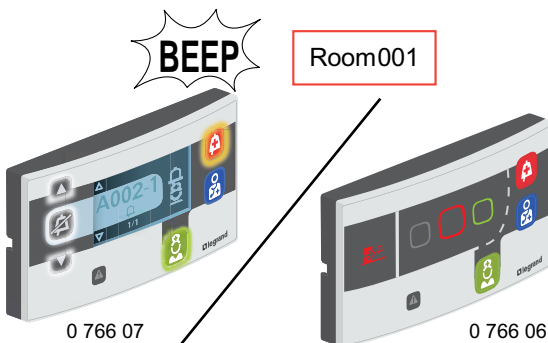
The nurses' station control unit signals the presence of the nurse in the room.

# Operating modes (continued)

## CALL-FORWARDING BETWEEN ROOMS IN THE PRESENCE OF A NURSE

### Scenario 7:

- 1- Patient in room 001 calls for a nurse
- 2- Nurse goes to that room and confirms their presence
- 3- Another patient in room 002 calls for a nurse
- 4- Call-forwarding between rooms:
  - 1- To door unit 0 766 06: the indicators lighting up allow the nurse to be alerted (not possible to identify which room they come from)
  - 2- To door unit 0 766 07: the call is displayed on screen (indication of call from room 002 for the nurse in room 001). The door unit then assumes the role of main control unit.

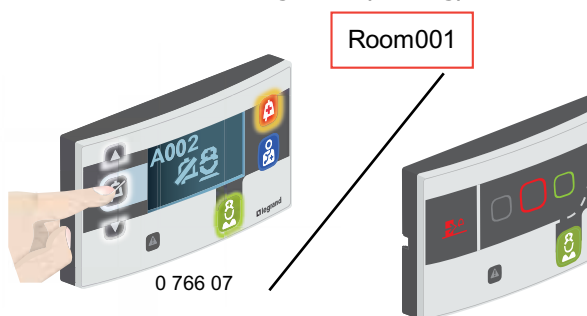


The door unit signals the call from the room (indicating the room number on the display unit) and emits an audible alarm.



The door unit signals the call and emits an audible alarm.

### 5- The new call is recognised (muting)



The nurse signals recognition of the new call and the audible alarm is cut off.

Muting not possible on 0 766 06

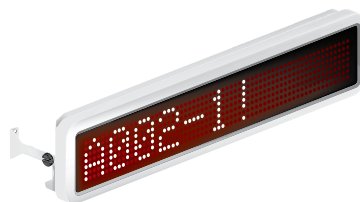


The door unit signals the call. The audible alarm is cut off.

- 6- Nurse present in room 002 (see scenario 1)
- 7- Call is hung up (see scenario 1)  
or  
- Nurse requests assistance (see scenario 1)



The red indicator on the corridor light unit is on steady.



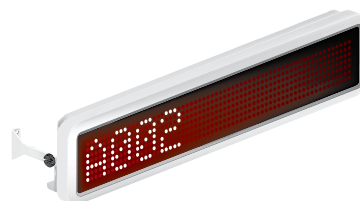
The corridor display unit signals the most recent call.



The nurses' station control unit signals the rooms making calls.



The red indicator on the overdoor light unit remains on.



The corridor display unit signals the room making a call.



The nurses' station control unit signals the room making a call.

# Operating modes (continued)

## PATIENT CALL WITH INTERPHONE INSTALLATION

### 1- Patient calls from room

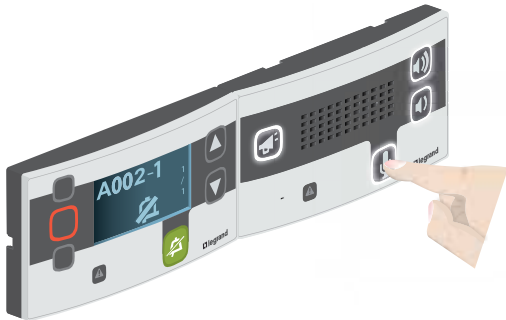


The patient calls by pressing a button on the hand-held remote control unit (scenario 1).



The nurses' station control unit signals the room making a call and emits an audible alarm.

### 2- End of conversation. The call remains live



Once the call has been dealt with, the nurse ends the conversation.

OR

### 2b- Nurse hangs up the call



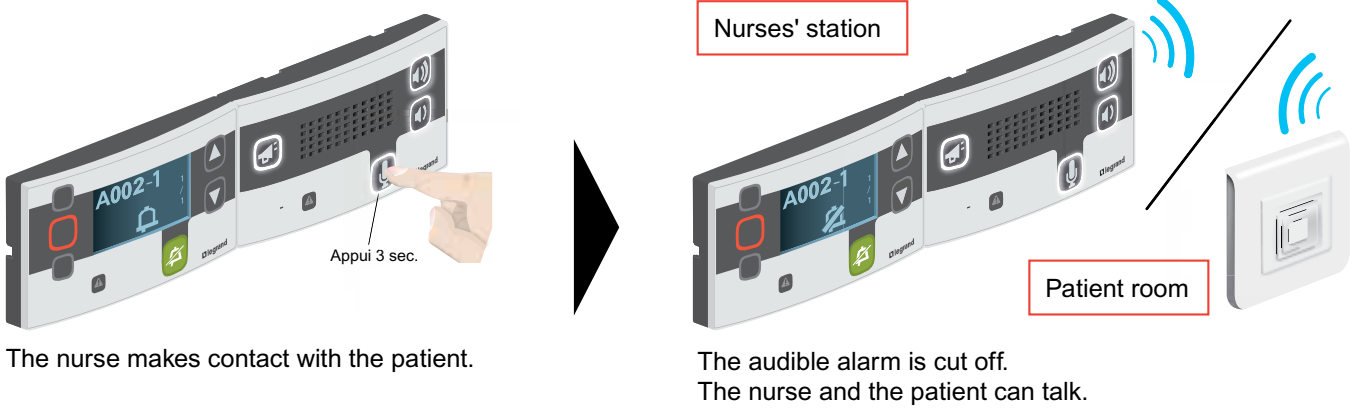
Once the conversation has finished, the nurse hangs up.



The nurses' station control unit still signals the call.



The door unit switches off.



The door unit remains live.



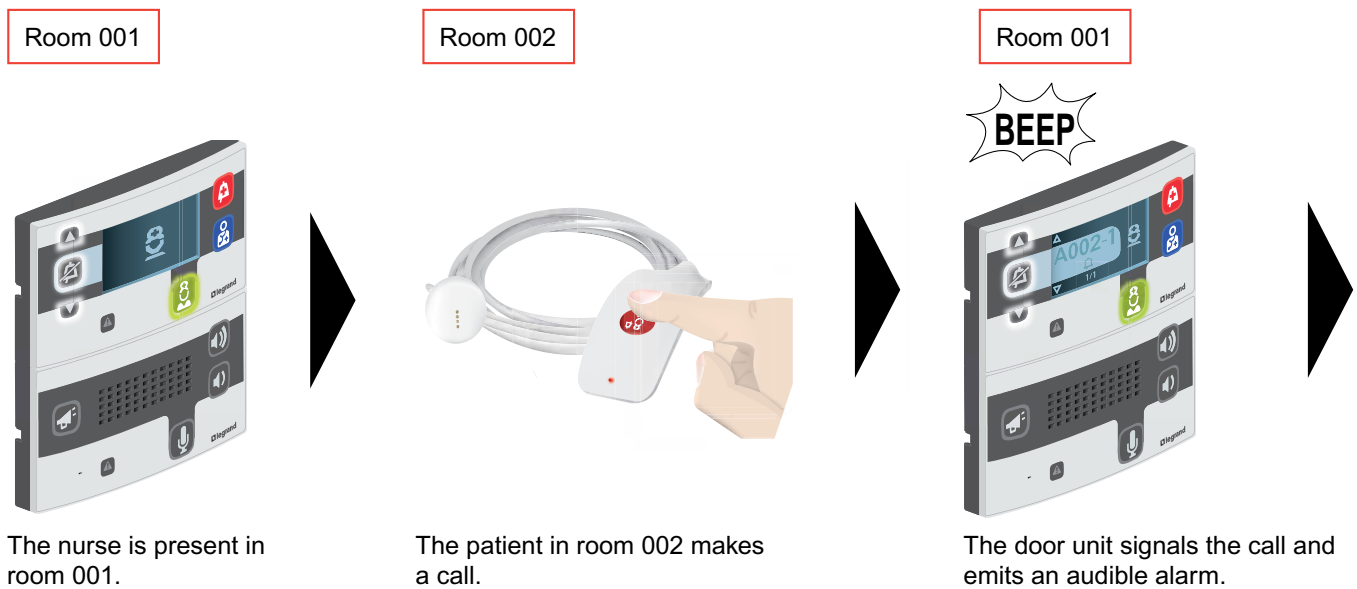
The nurses' station control unit no longer signals this call.

**!** The system automatically cuts off interphone communication after 1 minute

# Operating modes (continued)

## INTER-ROOM CALL (1)

1- Nurse present in room 1 and call from patient in room 2

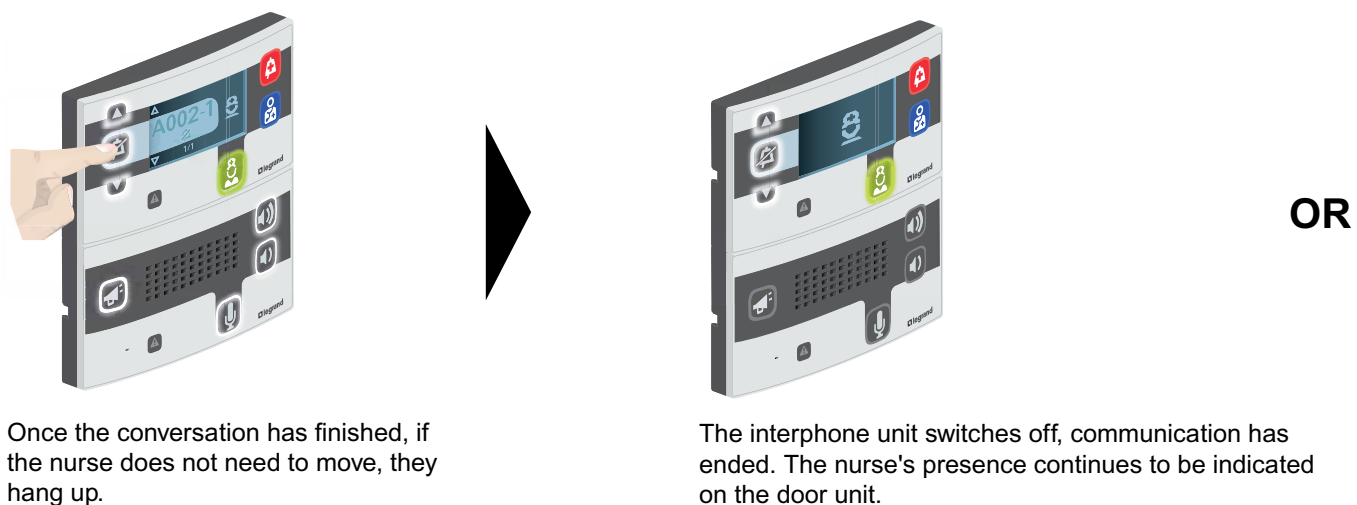


The nurse is present in room 001.

The patient in room 002 makes a call.

The door unit signals the call and emits an audible alarm.

2- Nurse hangs up the call



Once the conversation has finished, if the nurse does not need to move, they hang up.

The interphone unit switches off, communication has ended. The nurse's presence continues to be indicated on the door unit.



The nurse takes the call.



The nurse makes contact with the patient.  
The audible alarm is cut off.

**2b- End of conversation. The call remains live.**



Once the conversation has finished, if the nurse needs to go to room 002, they simply cut interphone communication.



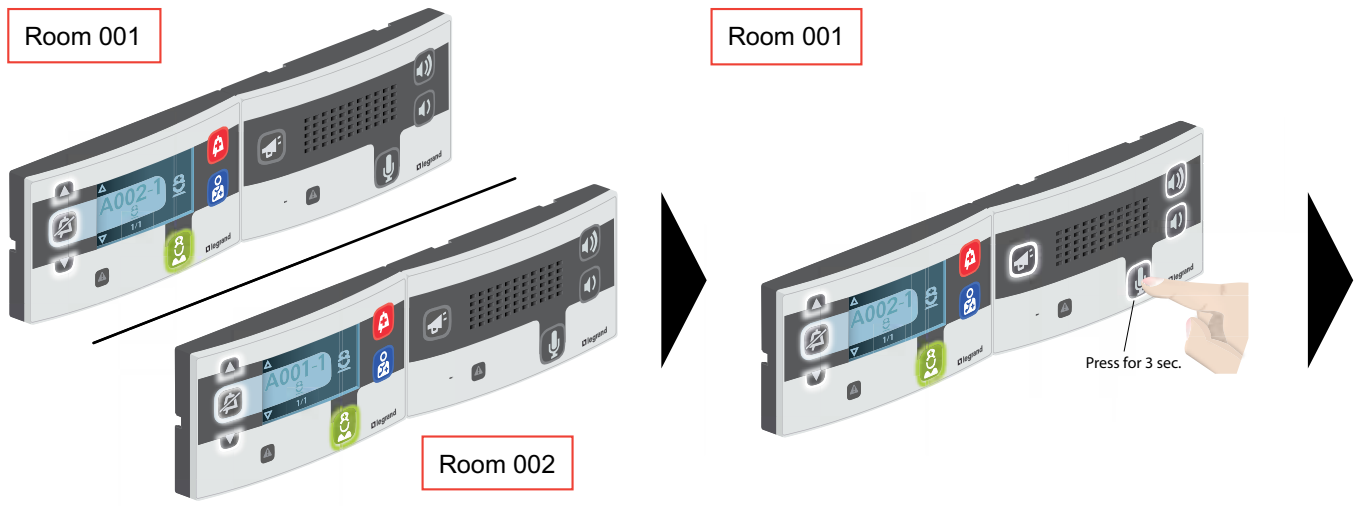
The interphone unit switches off, communication has ended but the nurses' station control unit still signals the call.

The system automatically cuts off interphone communication after 1 minute

# Operating modes (continued)

## INTER-ROOM CALL (2)

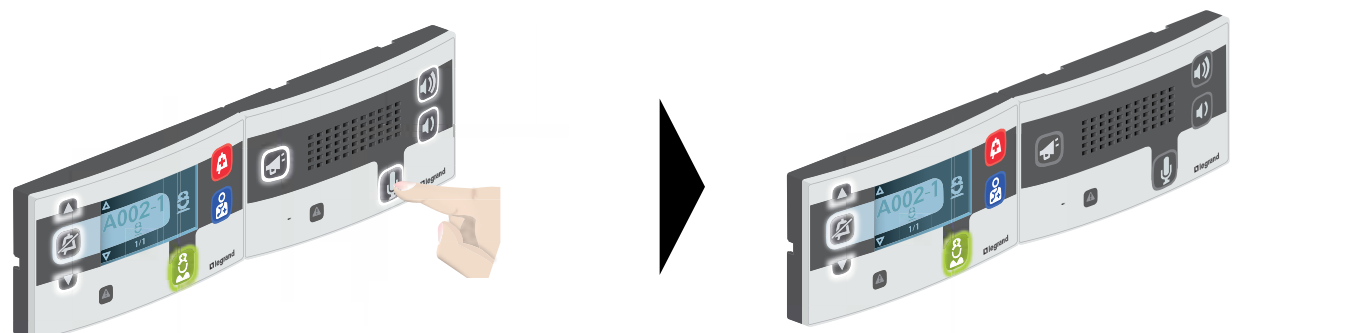
### 1- Nurses present simultaneously



Two nurses are present in two different rooms.

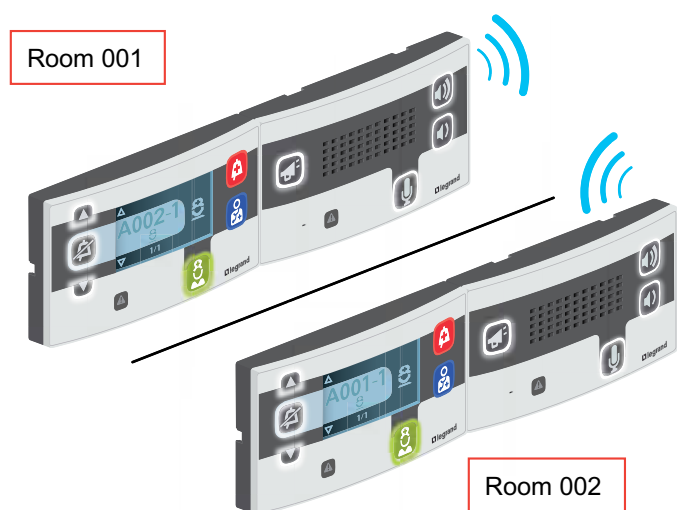
The nurse in room 1 makes contact with the nurse in room 2.

### 2- Nurse hangs up the call




Once the conversation has ended, the nurse in room 1 ends communication by pressing the microphone again.

The interphone units switch off, communication has ended. The presence of nurses continues to be indicated on the door units.



The two nurses can talk to one another.

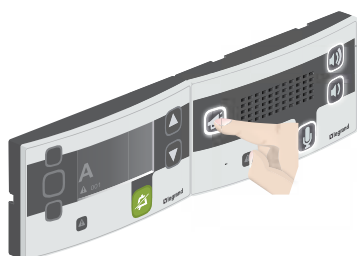
 The system switches off automatically after 1 minute

# Operating modes (continued)

## GENERAL CALL

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### 1- General call from the nurses' station



The nurse issues a general call from the nurse's station control unit by holding down the megaphone button.

### OR 1b - General call from a door unit with a nurse present



The nurse issues a general call from the door unit by holding down the megaphone button.



All the room door units broadcast the general call.

### 2- End of general call




Once the call is complete, the nurse ends communication by releasing the megaphone button.




All the room door units switch off, communication has ended.








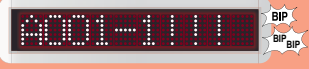








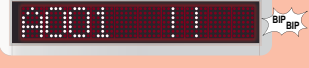
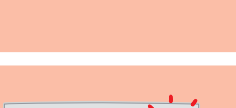


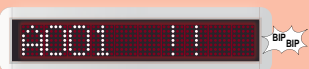




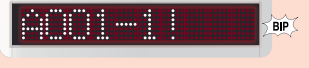
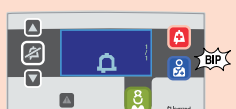


Calls are broadcast from the nurses' control unit to the door unit of all rooms in the department.

 If the yellow icon only lights up when the megaphone is pressed  check the indicator power supplies. Remember you need an indicator power supply Cat. No. 0 782 90 for 16 rooms.

 The system switches off automatically after 1 minute

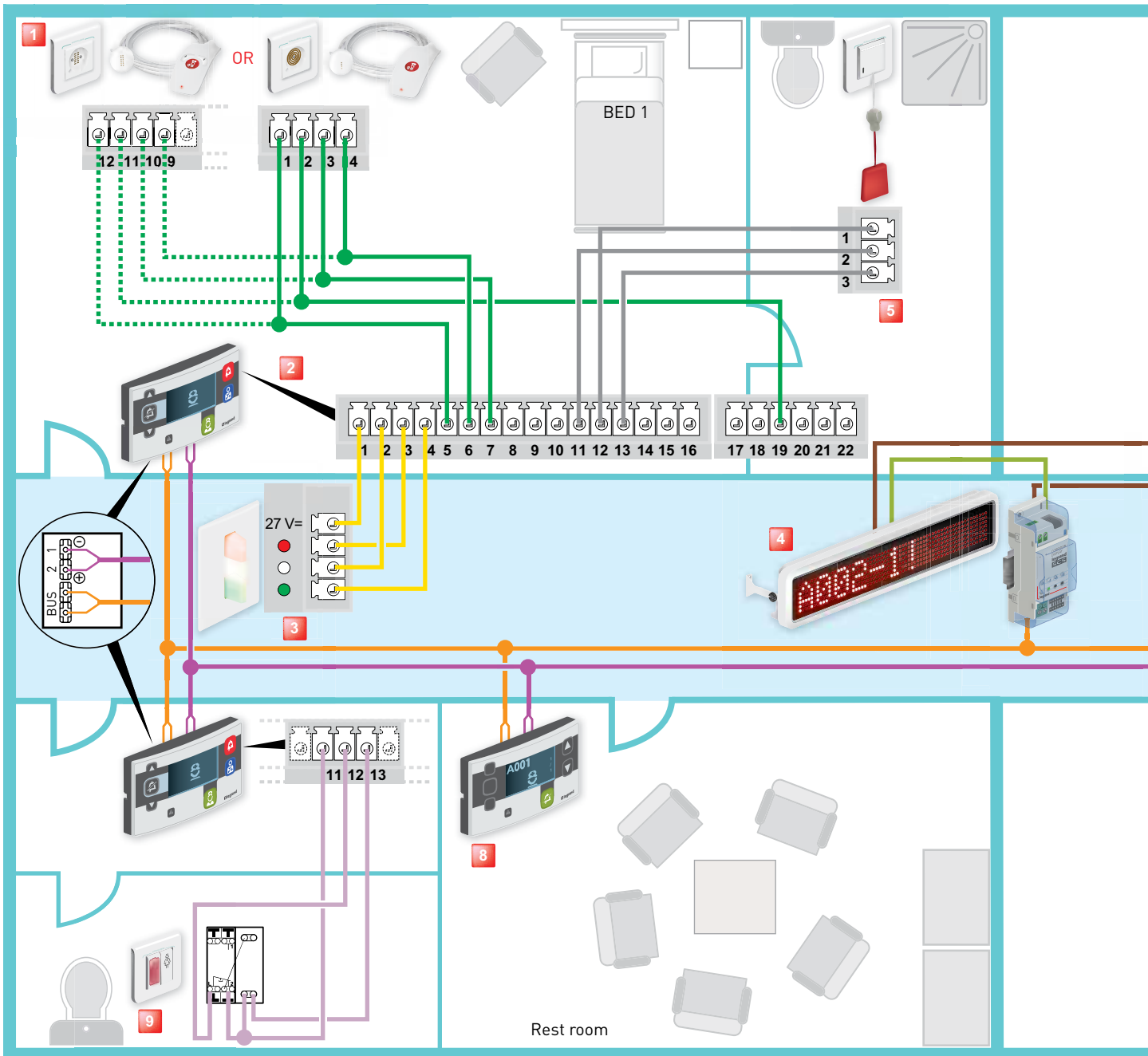
# Call urgency/priority levels

PRIORITY	TYPE OF CALL	CONTROL	CORRIDOR OVERDOOR LIGHT UNIT	NURSES' CONTROL UNIT
	Bathroom high-level emergency call (code blue)	 +	 <i>Flashing quickly</i>	
	Room high-level emergency call (code blue)	 + <b>OR</b> +  +	 <i>Flashing quickly</i>	 
	Bathroom emergency call (assistance)	  	 <i>Flashing slowly</i>	
	Room emergency call (assistance)	   <b>OR</b> +  +	 <i>Flashing slowly</i>	 
	Escape alarm	 	 <i>Flashing slowly</i>	
	Biomedical alarm	 <b>OR</b> 	 <i>Flashing slowly</i>	
	Bathroom call			
	Room call bed 1			
	Room call			

CORRIDOR DISPLAY UNIT	DOOR UNIT WITH SCREEN	CALL LEVEL	MUTING 	PRIORITY
		<b>High-level emergency call</b> 	NO	
			NO	
			NO	
		<b>Emergency call</b> 	NO	
			NO	
			NO	
			NO	
		NO	NO	
		<b>Simple call</b> 	NO	
			YES	
			YES	

# Wiring: call + nurse presence + biomedical installation

**⚠ Do not fully clip on the door units**



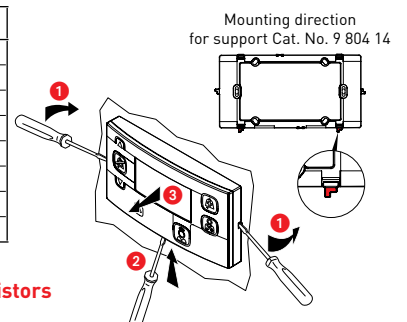
**1** Socket + hand-held remote control unit for call Cat. Nos. 0 782 45/47 + 0 782 42/44 or socket + hand-held remote control unit for call Cat. Nos. 0 782 41/46 + 0 782 40

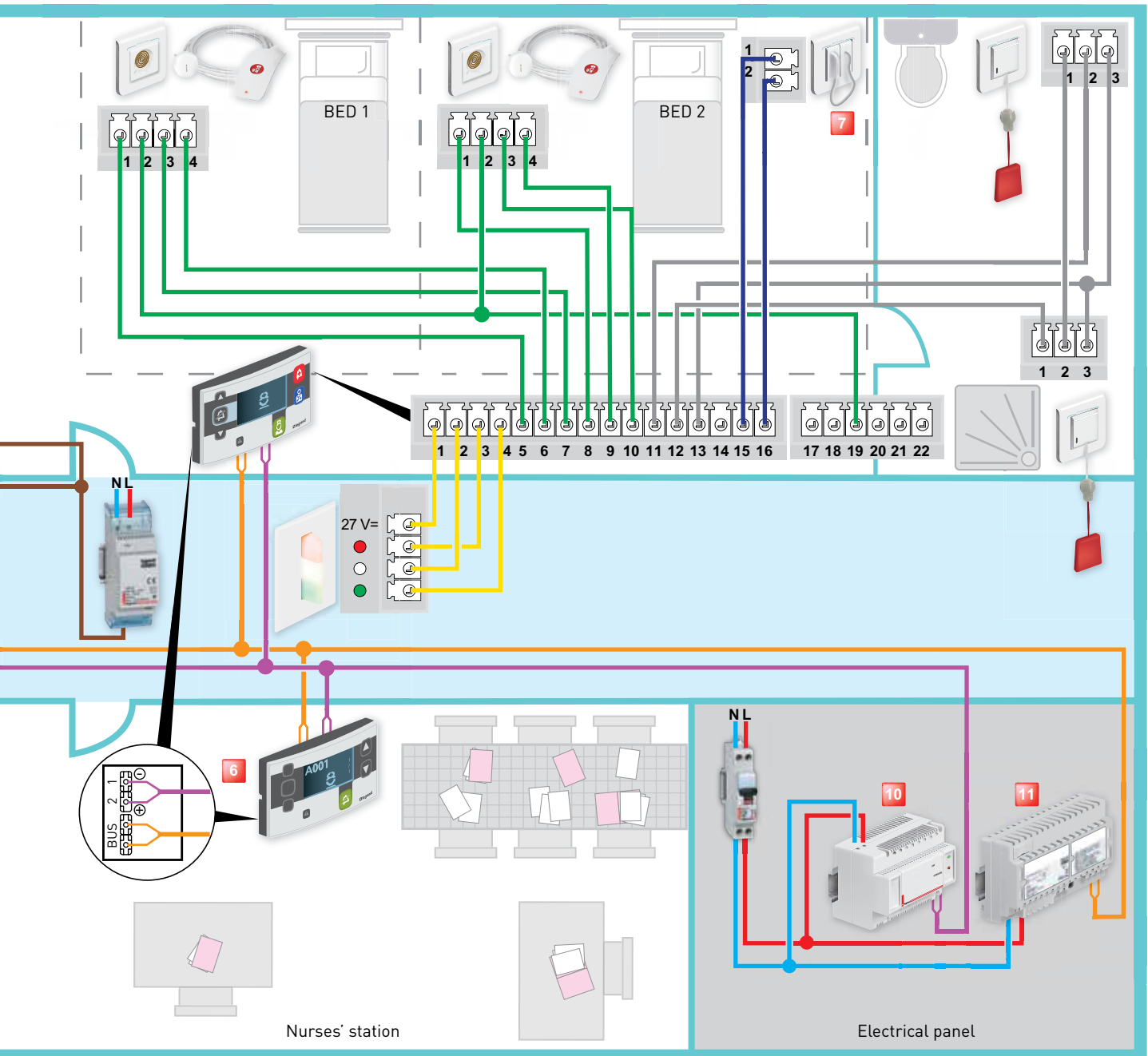
**2** Door unit with display unit Cat. Nos. 0 766 07/06

Terminal	Description	Terminal	Description
1	Lamp common	10	Bed 2 hand-held control unit call indicator
2	White lamp	11	Bathroom pull-cord common
3	Red lamp	12	Bathroom pull-cord contact
4	Green lamp	13	Bathroom pull-cord indicator
5	Bed 1 hand-held control unit common	14	Bathroom call acknowledgement button (optional)
6	Bed 1 hand-held control unit call button	15	Biomedical contact common
7	Bed 1 hand-held control unit call indicator	16	Biomedical contact
8	Bed 2 hand-held control unit common	19	Beds 1 and 2 hand-held control unit backlight
9	Bed 2 hand-held control unit call button		

**If monitor lights or overdoor light units are not being used, replace them with 100 kΩ/0.25 W resistors**  
**If the call contact is not being used, short-circuit the corresponding terminals**

## Removing the door unit





- 3** Monobloc corridor overdoor unit Cat. No. 0 766 70
- 4** Corridor display unit Cat. No. 0 766 04 with interface and power supply
- 5** Bathroom call pull-cord Cat. No. 0 782 48

- 6** Main nurses' control unit Cat. No. 0 766 11
- 7** Biomedical alarm Cat. Nos. 0 771 50 + 0 782 07
- 8** Secondary nurses' control unit Cat. No. 0 766 09

- 9** Call unit Cat. No. 0 766 85
- 10** Indicator power supply Cat. No. 0 782 90
- 11** BUS/SCS power supply Cat. No. 0 035 60 or E46ADCN

— 1 pair 0.9 mm<sup>2</sup> polarised SYT indicator  
— 1 pair Cat. No. 0 492 33 non-polarised

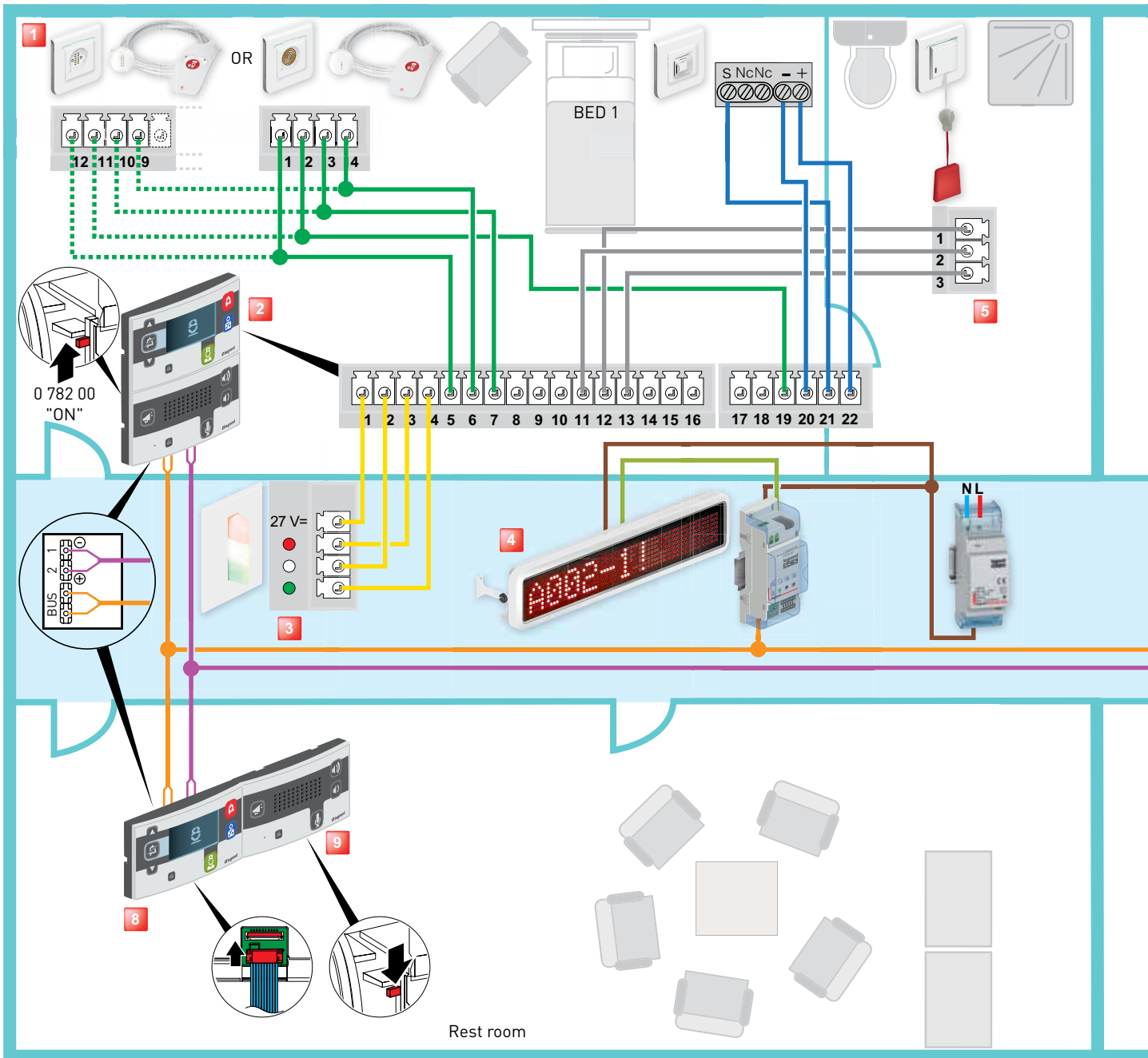
— — — } 2 or 3 pairs 0.6 or 0.9 mm<sup>2</sup> SYT

— — } Supplied with the product

Star wiring recommended

# Wiring: call + nurse presence + biomedical installation

**⚠ Do not fully clip on the door units**



**1** Socket + hand-held remote control unit for call Cat. Nos. 0 782 45/47 + 0 782 42/44 or socket + hand-held remote control unit for call Cat. Nos. 0 782 41/46 + 0 782 40

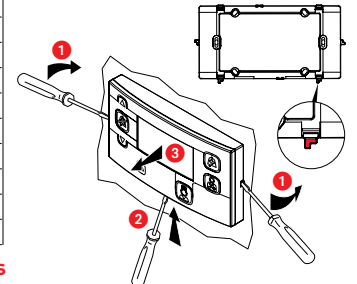
**2** Door unit with display unit Cat. Nos. 0 766 07/06

Terminal	Description	Terminal	Description
1	Lamp common	10	Bed 2 hand-held control unit call indicator
2	White lamp	11	Bathroom pull-cord common
3	Red lamp	12	Bathroom pull-cord contact
4	Green lamp	13	Bathroom pull-cord indicator
5	Bed 1 hand-held control unit common	14	Bathroom call acknowledgement button (optional)
6	Bed 1 hand-held control unit call button	15	Biomedical contact common
7	Bed 1 hand-held control unit call indicator	16	Biomedical contact
8	Bed 2 hand-held control unit common	19	Beds 1 and 2 hand-held control unit backlight
9	Bed 2 hand-held control unit call button	20	Microphone earth
		21	Microphone input
		22	Microphone + 27 V

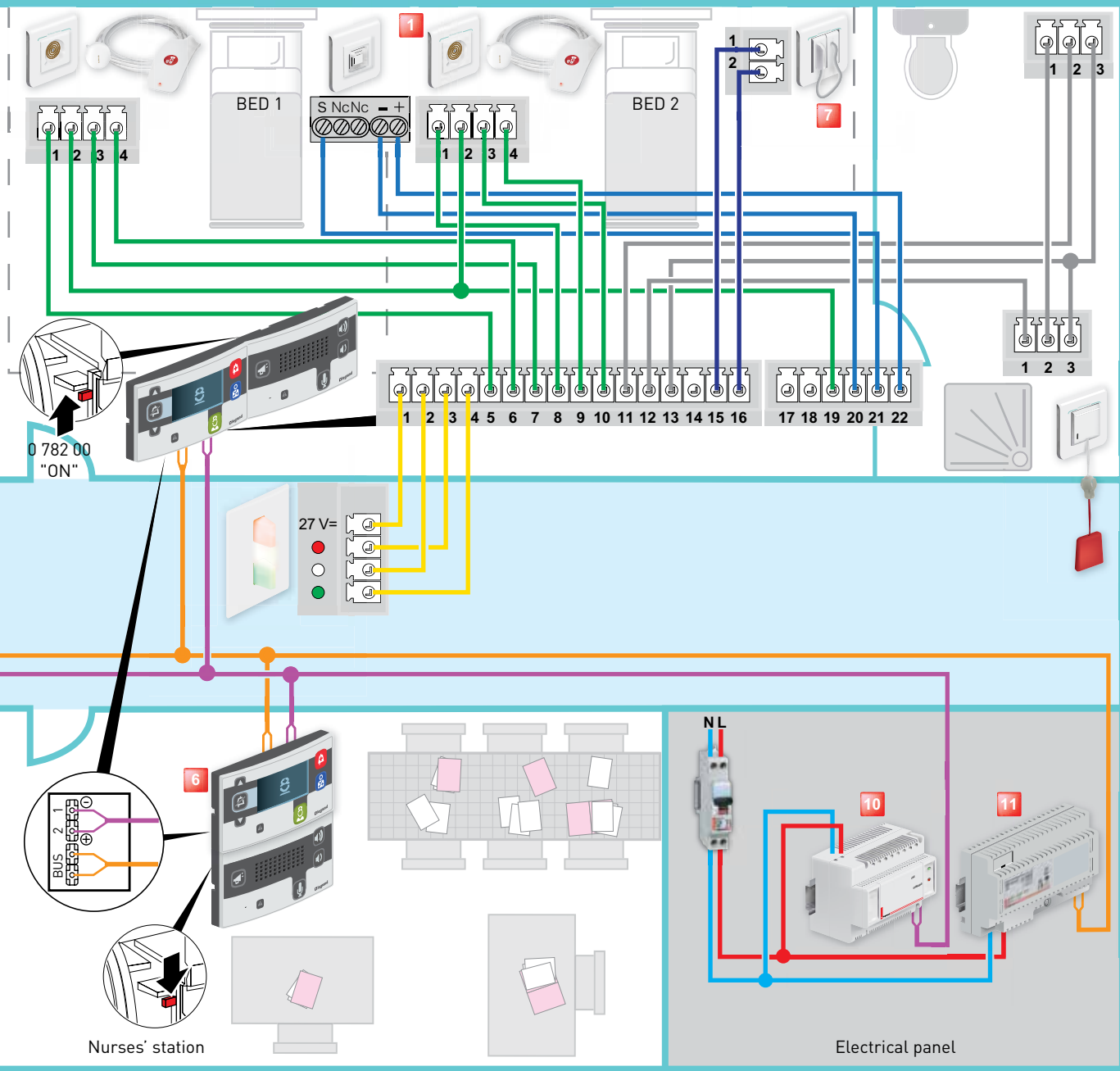
**If monitor lights or overdoor light units are not being used, replace them with 100 k $\Omega$ /0.25 W resistors  
If the call contact is not being used, short-circuit the corresponding terminals**

## Removing the door unit

Mounting direction for support Cat. No. 9 804 14



# with interphone



**3** Monobloc corridor overdoor unit Cat. No. 0 766 70

**4** Corridor display unit Cat. No. 0 766 04 with interface and power supply

**5** Bathroom call pull-cord Cat. No. 0 782 48

**6** Main nurses' control unit Cat. No. 0 766 11

**7** Biomedical alarm Cat. Nos. 0 771 50 + 0 782 07

**8** Secondary nurses' control unit Cat. No. 0 766 09

**9** Interphone unit Cat. No. 0 766 08

**10** Indicator power supply Cat. No. 0 782 90

**11** BUS/SCS power supply Cat. No. 0 634 35 or 346000

— 1 pair 0.9 mm<sup>2</sup> polarised SYT indicator

— 1 pair Cat. No. 0 492 33 non-polarised

— } 2 or 3 pairs 0.6 or 0.9 mm<sup>2</sup> SYT

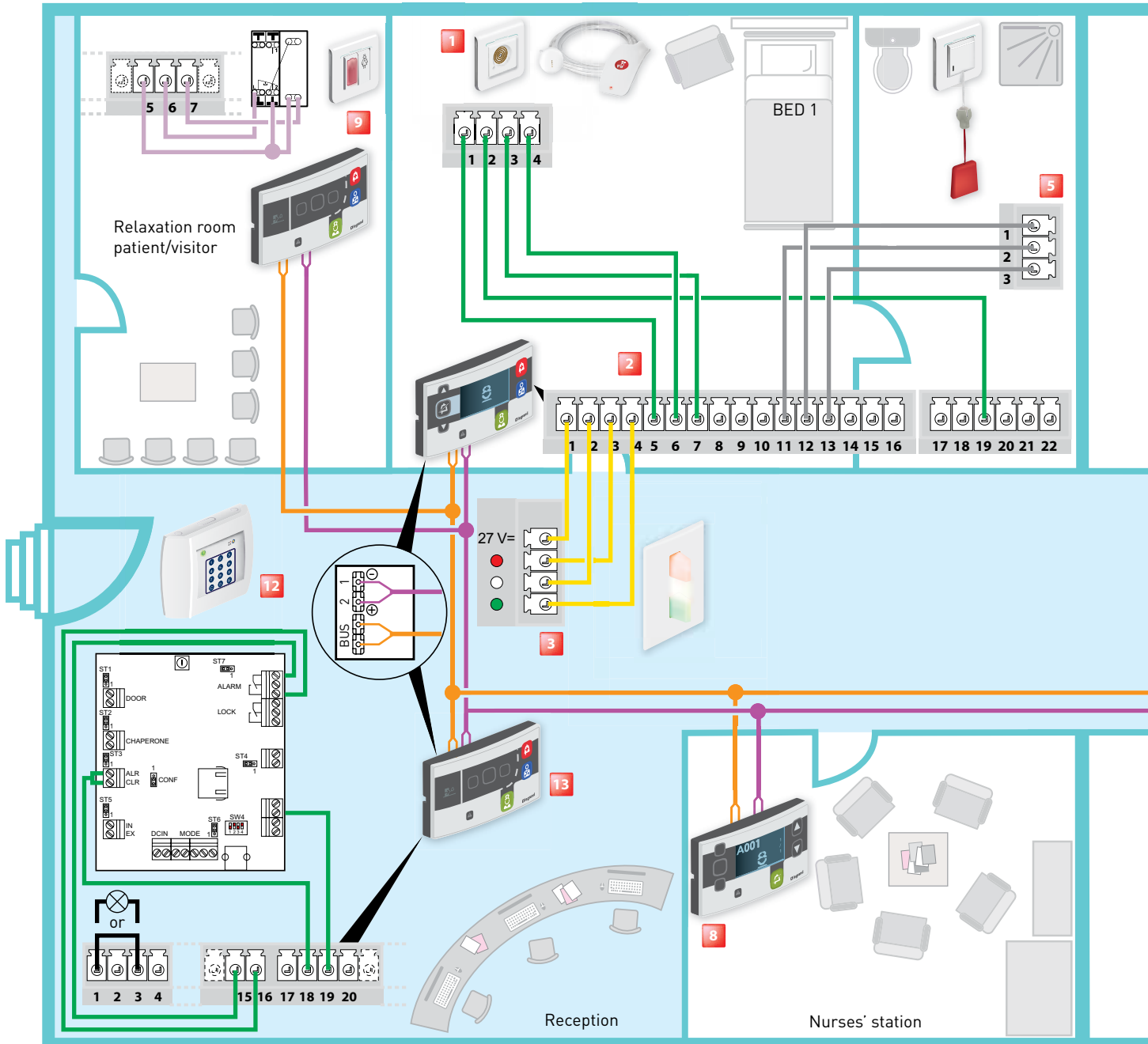
— } Supplied with the product

Star wiring recommended

**!** In the interphone version, the bus power supply must be used, Cat. Nos. 0 634 35/346000

# Wiring: secure wandering installation with call

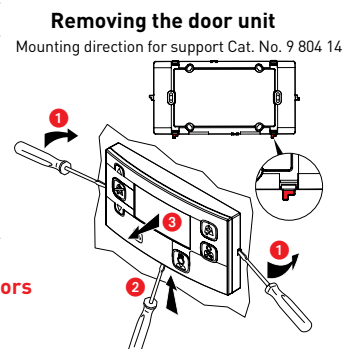
**⚠ Do not fully clip on the door units**



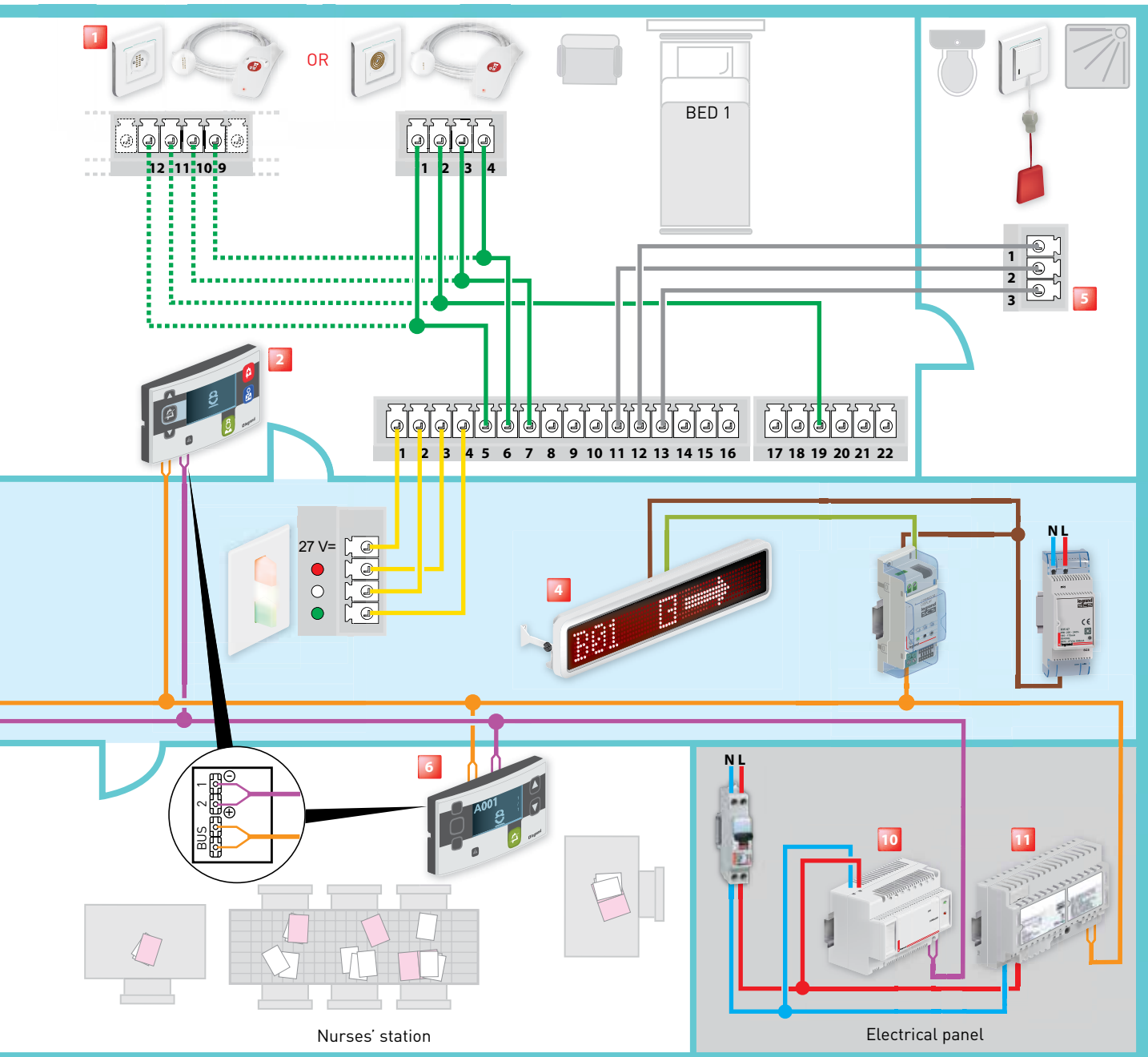
- 1** Socket + hand-held remote control unit for call Cat. Nos. 0 782 45/47 + 0 782 42/44 or socket + hand-held remote control unit for call Cat. Nos. 0 782 41/46 + 0 782 40
- 2** Door unit with display unit Cat. Nos. 0 766 07/06
- 3** Monobloc overdoor unit corridor Cat. No. 0 766 70
- 4** Corridor display unit Cat. No. 0 766 04 with interface and power supply
- 5** Bathroom call pull-cord Cat. No. 0 782 48
- 8** Reception
- 9** Relaxation room patient/visitor

Terminal	Description	Terminal	Description
1	Lamp common	10	Bed 2 hand-held control unit call indicator
2	White lamp	11	Bathroom pull-cord common
3	Red lamp	12	Bathroom pull-cord contact
4	Green lamp	13	Bathroom pull-cord indicator
5	Bed 1 hand-held control unit common	14	Bathroom call acknowledgement button (optional)
6	Bed 1 hand-held control unit call button	15	Biomedical contact common
7	Bed 1 hand-held control unit call indicator	16	Biomedical contact
8	Bed 2 hand-held control unit common	19	Beds 1 and 2 hand-held control unit backlight
9	Bed 2 hand-held control unit call button		

**If monitor lights or overdoor light units are not being used, replace them with 100 kΩ/0.25 W resistors**  
**If the call contact is not being used, short-circuit the corresponding terminals**



# + nurse presence



- 6** Main nurses' control unit Cat. No. 0 766 11
- 7** Biomedical alarm Cat. Nos. 0 771 50 + 0 782 07
- 8** Secondary nurses' control unit Cat. No. 0 766 09

- 9** Nurse call unit for visitors Cat. No. 0 766 85
- 10** Indicator power supply Cat. No. 0 782 90
- 11** BUS/SCS power supply Cat. No. 0 035 60 or E46ADCN

- 12** Door controller Cat. No. 0 766 22 (See instructions for completing the wiring and associated guide)
- 13** Door unit with indicators Cat. No. 0 766 06 (M1=8 operation in wandering mode secure)

— 1 pair 0.9 mm<sup>2</sup> polarised SYT indicator  
 — 1 pair Cat. No. 0 492 33 non-polarised

Star wiring recommended

— } 2 or 3 pairs 0.6 or 0.9 mm<sup>2</sup> SYT

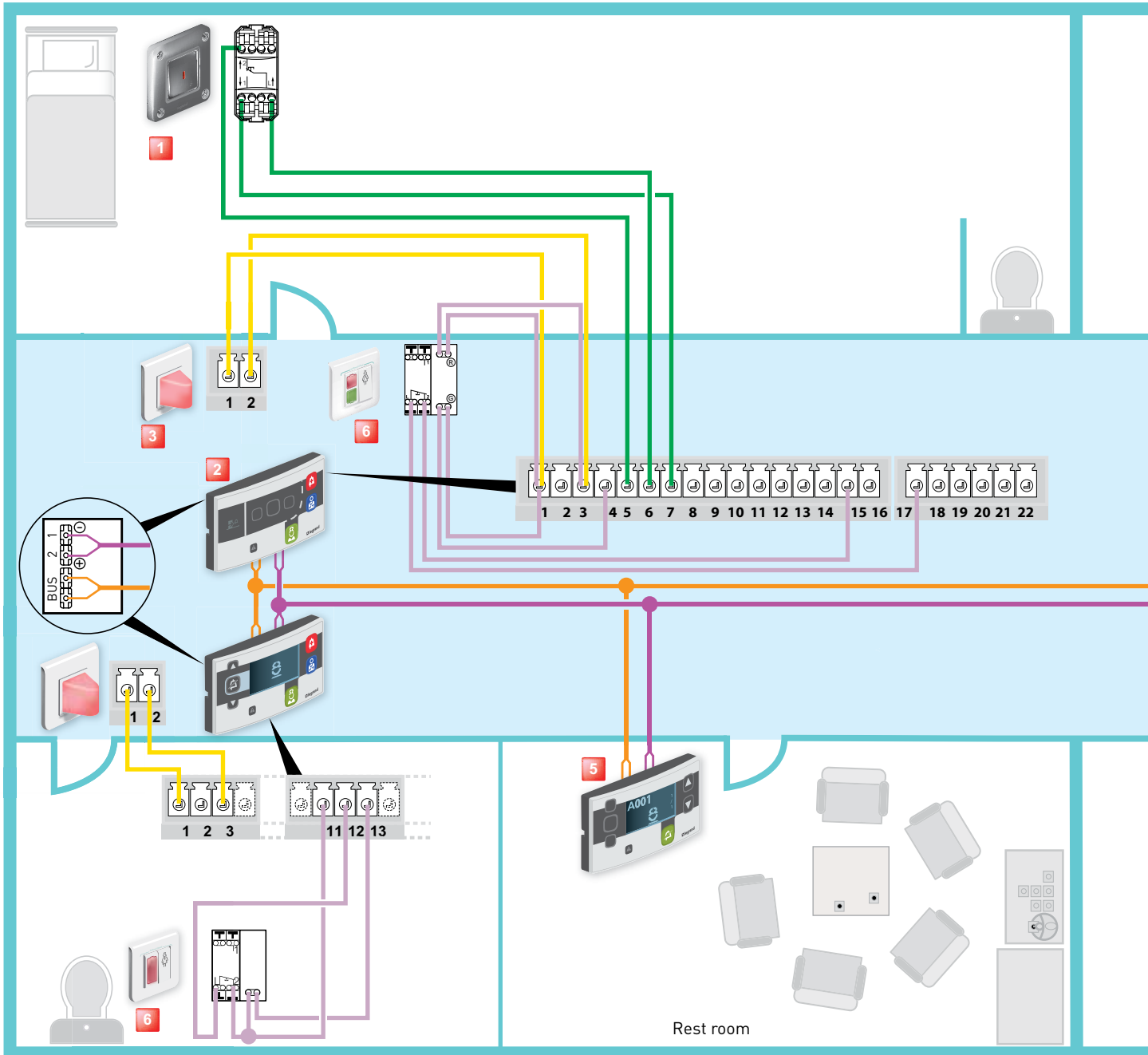
— } Supplied with the product

Terminal	Description
15	Contact common
16	Contact closed
18	Acknowledgement
19	Earth

Short-circuit the terminals between 1 and 3 if overdoor light unit 0 766 71 is not used

# Wiring: penal/psychiatric institution call installation

**⚠ Do not fully clip on the door units**



**1** High-resistance call unit Cat. No. 0 782 51

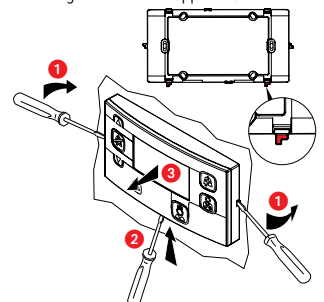
**2** Door unit Cat. No. 0 766 06

Terminal	Description	Terminal	Description
1	Lamp common	10	Push-button 2 call indicator
2	White lamp	11	Bathroom pull-cord common
3	Red lamp	12	Bathroom pull-cord contact
4	Green lamp	13	Bathroom pull-cord indicator
5	Push-button 1 common	14	Bathroom call acknowledgement button (optional)
6	Push-button 1 call button	15	Biomedical contact common/ acknowledgement button
7	Push-button 1 call indicator	16	Biomedical contact
8	Push-button 2 common	17	Remote acknowledgement push-button
9	Push-button 2 call button		

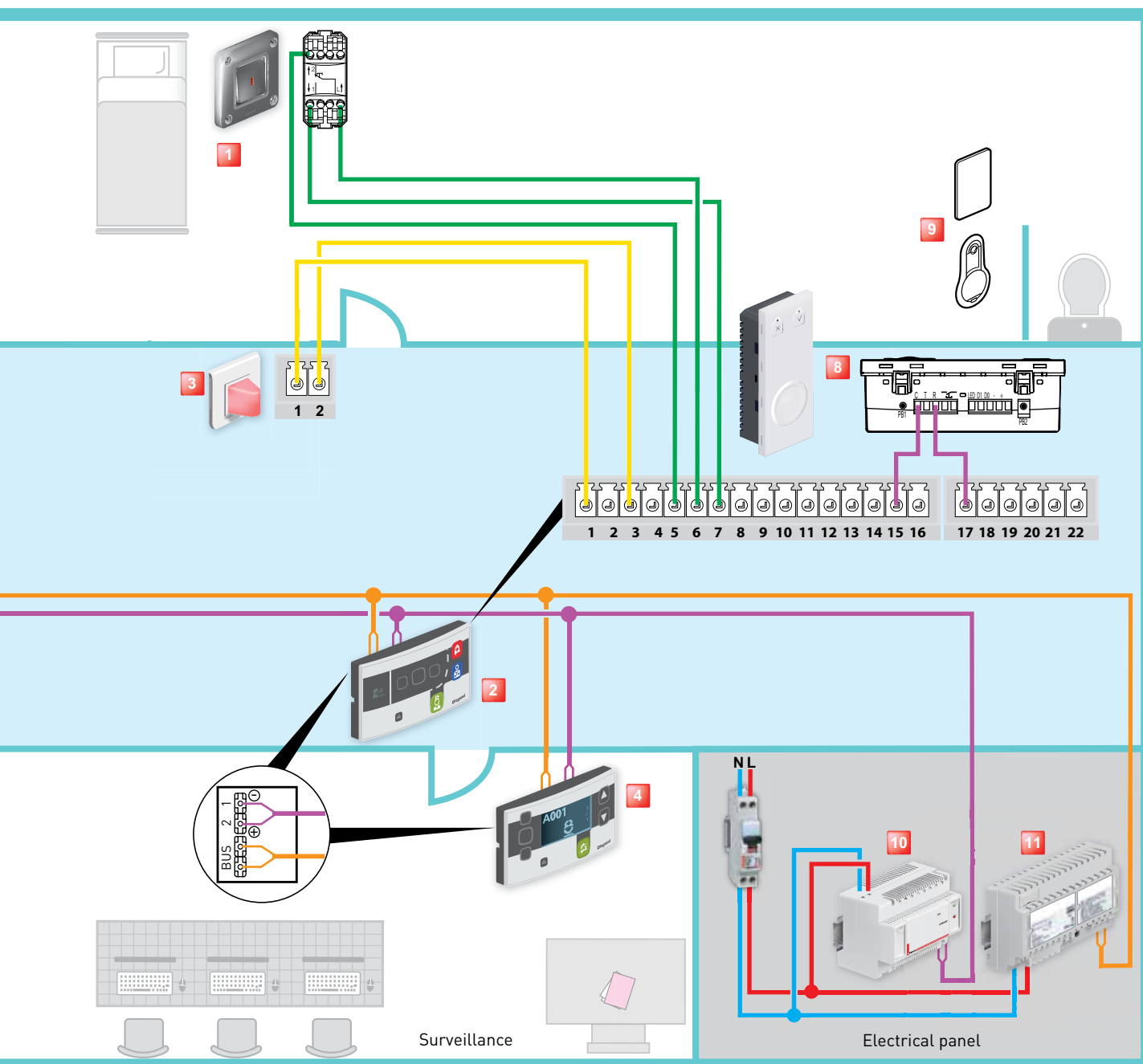
**If monitor lights or overdoor light units are not being used, replace them with 100 kΩ/0.25 W resistors  
If the call contact is not being used, short-circuit the corresponding terminals**

## Removing the door unit

Mounting direction for support Cat. No. 9 804 14



# with remote acknowledgement by push-button or card reader



**3** Monobloc corridor overdoor unit Cat. No. 0 766 71

**4** Main surveillance control unit Cat. No. 0 766 11

**5** Secondary surveillance control unit Cat. No. 0 766 09

**6** Door unit Cat. No. 0 782 04

**7** Door controller for centralised readers  
Cat. No. 0 767 04

**8** Card reader Cat. No. 0 767 42

**9** Key card Cat. No. 0 767 10 or card Cat. No. 0 767 11 for presence and acknowledgement

**10** Indicator power supply Cat. No. 0 782 90

**11** BUS/SCS power supply Cat. No. 0 035 60 or E46ADCN

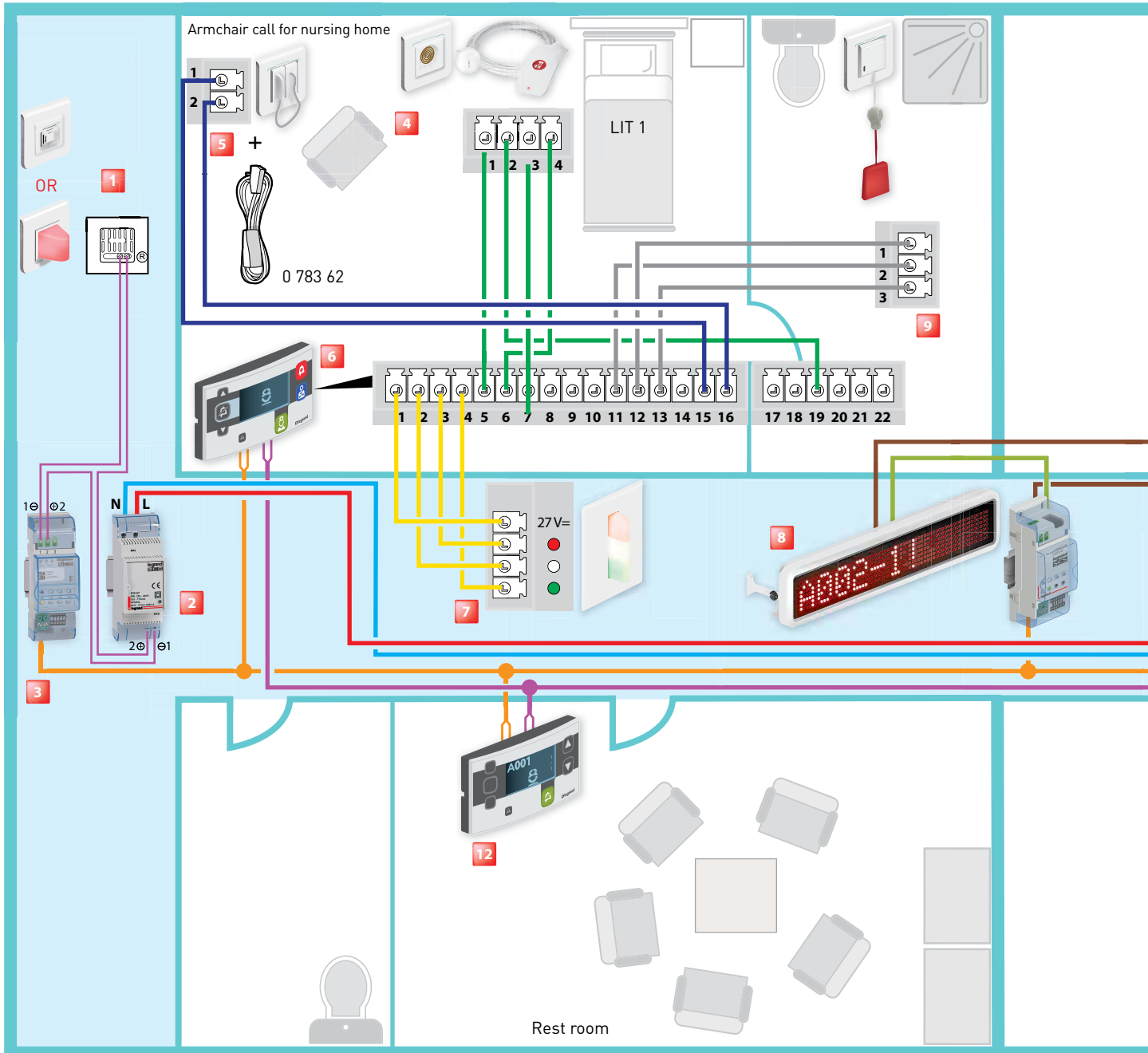
— 1 pair 0.9 mm<sup>2</sup> polarised SYT indicator

— 1 pair Cat. No. 0 492 33 non-polarised

— 2 or 3 pairs 0.6 or 0.9 mm<sup>2</sup> SYT

# Wiring: call + nurse presence + biomedical installation

**⚠ Do not fully clip on the door units**



**1** Electronic buzzer Cat. No. 0 766 42  
or Call only corridor light unit Cat. No. 0 766 71

**2** Auxiliary power supply Cat. No. 0 035 67

**3** Information transfer interface Cat. No. 0 766 78

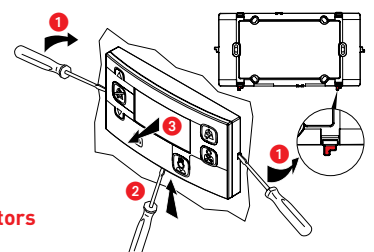
**4** Socket + hand-held remote control unit for call  
Cat. Nos. 0 782 41/46 + 0 782 40

Terminal	Description	Terminal	Description
1	Lamp common	10	Bed 2 hand-held control unit call indicator
2	White lamp	11	Bathroom pull-cord common
3	Red lamp	12	Bathroom pull-cord contact
4	Green lamp	13	Bathroom pull-cord indicator
5	Bed 1 hand-held control unit common	14	Bathroom call acknowledgement button (optional)
6	Bed 1 hand-held control unit call button	15	Biomedical contact common
7	Bed 1 hand-held control unit call indicator	16	Biomedical contact
8	Bed 2 hand-held control unit common	19	Beds 1 and 2 hand-held control unit backlight
9	Bed 2 hand-held control unit call button		

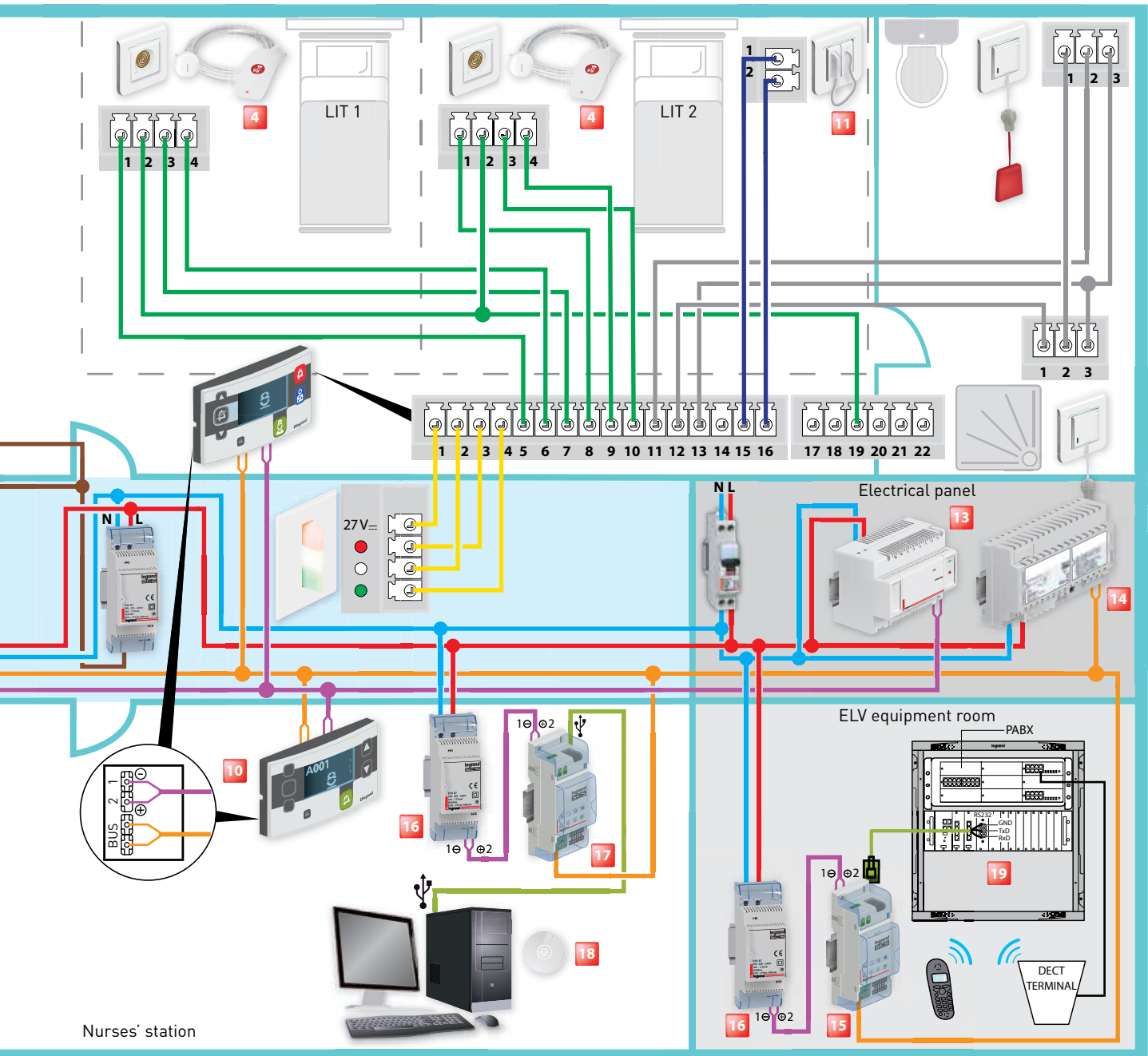
**If monitor lights or overdoor light units are not being used, replace them with 100 k $\Omega$ /0.25 W resistors  
If the call contact is not being used, short-circuit the corresponding terminals**

## Removing the door unit

Mounting direction for support Cat. No. 9 804 14



# + information transfer + traceability interface + DECT interface



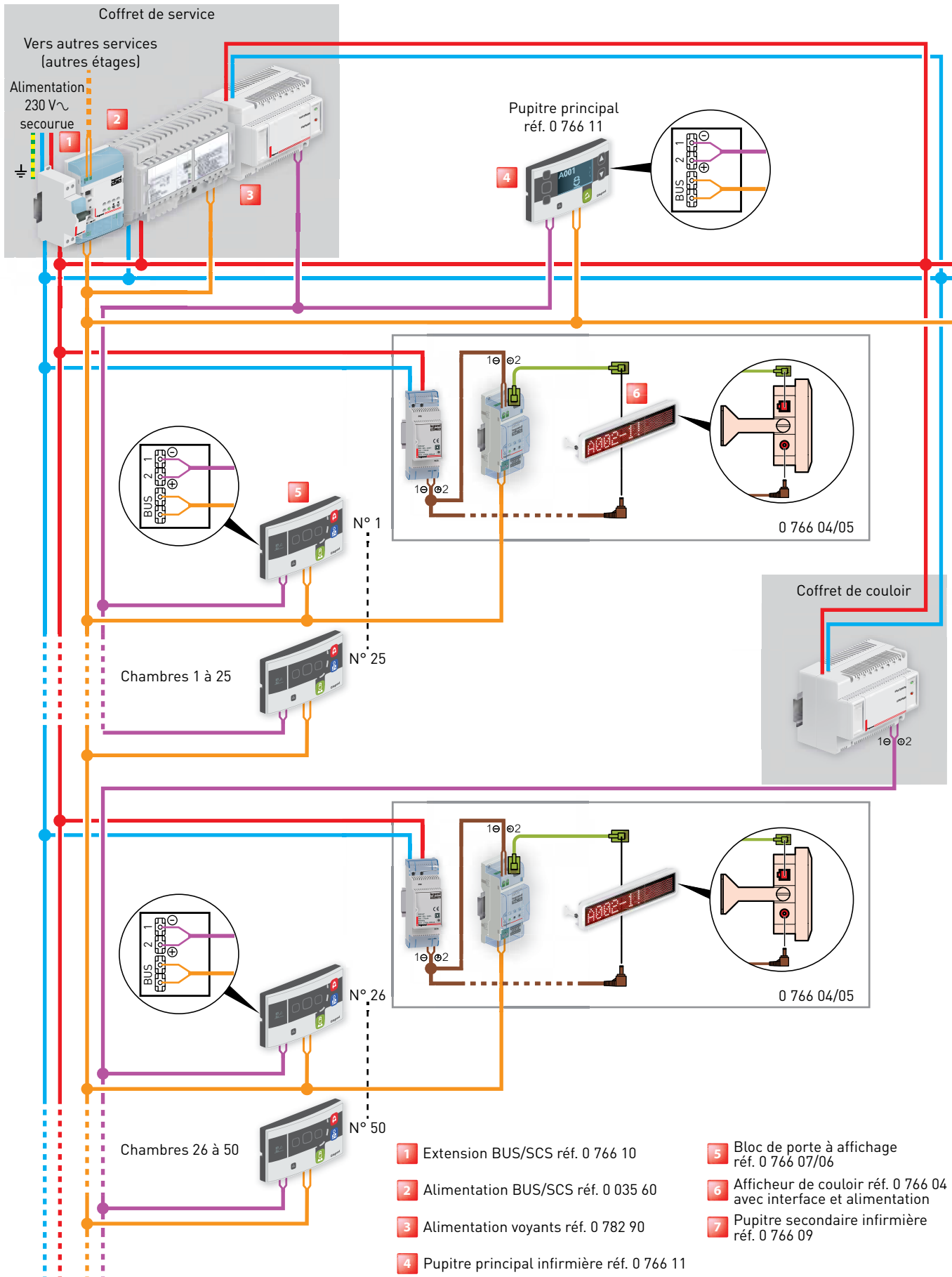
Nurses' station

- |   |   |  |
|---|---|--|
| <b>5</b> Armchair call for nursing home Cat. Nos. 0 771 50 + 0 782 07 + push-button cord 0 783 62 | <b>10</b> Main nurses' control unit Cat. No. 0 766 11       | <b>15</b> DECT interface Cat. No. 0 766 19         |
| <b>6</b> Door unit with display unit Cat. Nos. 0 766 07/06  | <b>11</b> Biomedical alarm Cat. Nos. 0 771 50 + 0 782 07    | <b>16</b> Auxiliary power supply Cat. No. 0 035 67 |
| <b>7</b> Monobloc corridor overdoor unit Cat. No. 0 766 70  | <b>12</b> Secondary nurses' control unit Cat. No. 0 766 09  | <b>17</b> Traceability interface Cat. No. 0 766 17 |
| <b>8</b> Corridor display unit Cat. No. 0 766 04 with interface and power supply                  | <b>13</b> Indicator power supply Cat. No. 0 782 90          | <b>18</b> Traceability software Cat. No. 0 766 18  |
| <b>9</b> Bathroom call pull-cord Cat. No. 0 782 48  | <b>14</b> BUS/SCS power supply Cat. No. 0 035 60 or E46ADCN | <b>19</b> Telephone coupler (telephony package)    |

- |  |   |                           |
|--|---|---------------------------|
| 1 pair 0.9 mm <sup>2</sup> polarised SYT indicator | 2 or 3 pairs 0.6 or 0.9 mm <sup>2</sup> SYT | Supplied with the product |
| 1 pair Cat. No. 0 492 33 non-polarised             |   |                           |

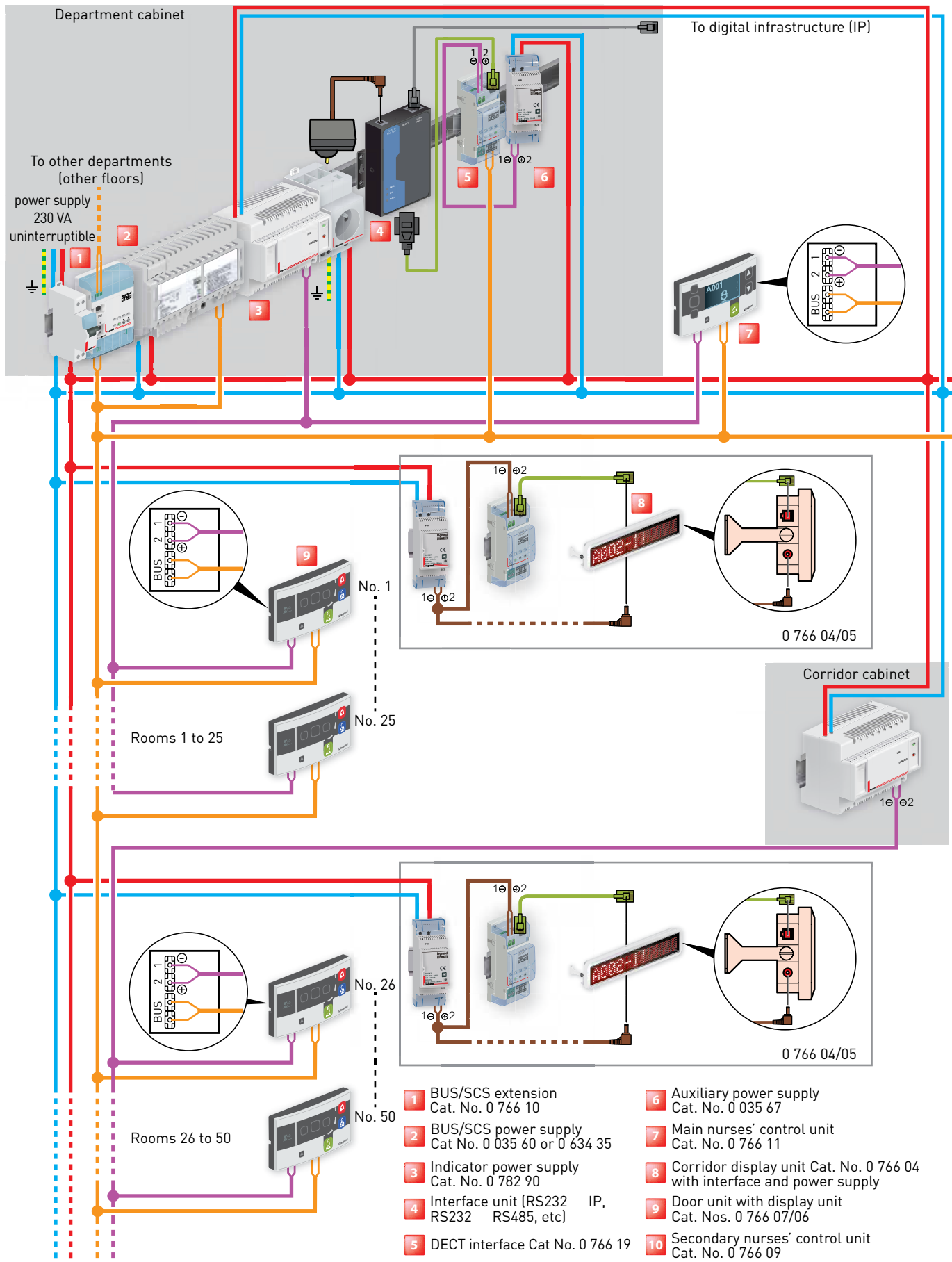
Star wiring recommended

# Wiring: 230 V cable and BUS cables (SCS + indicators)

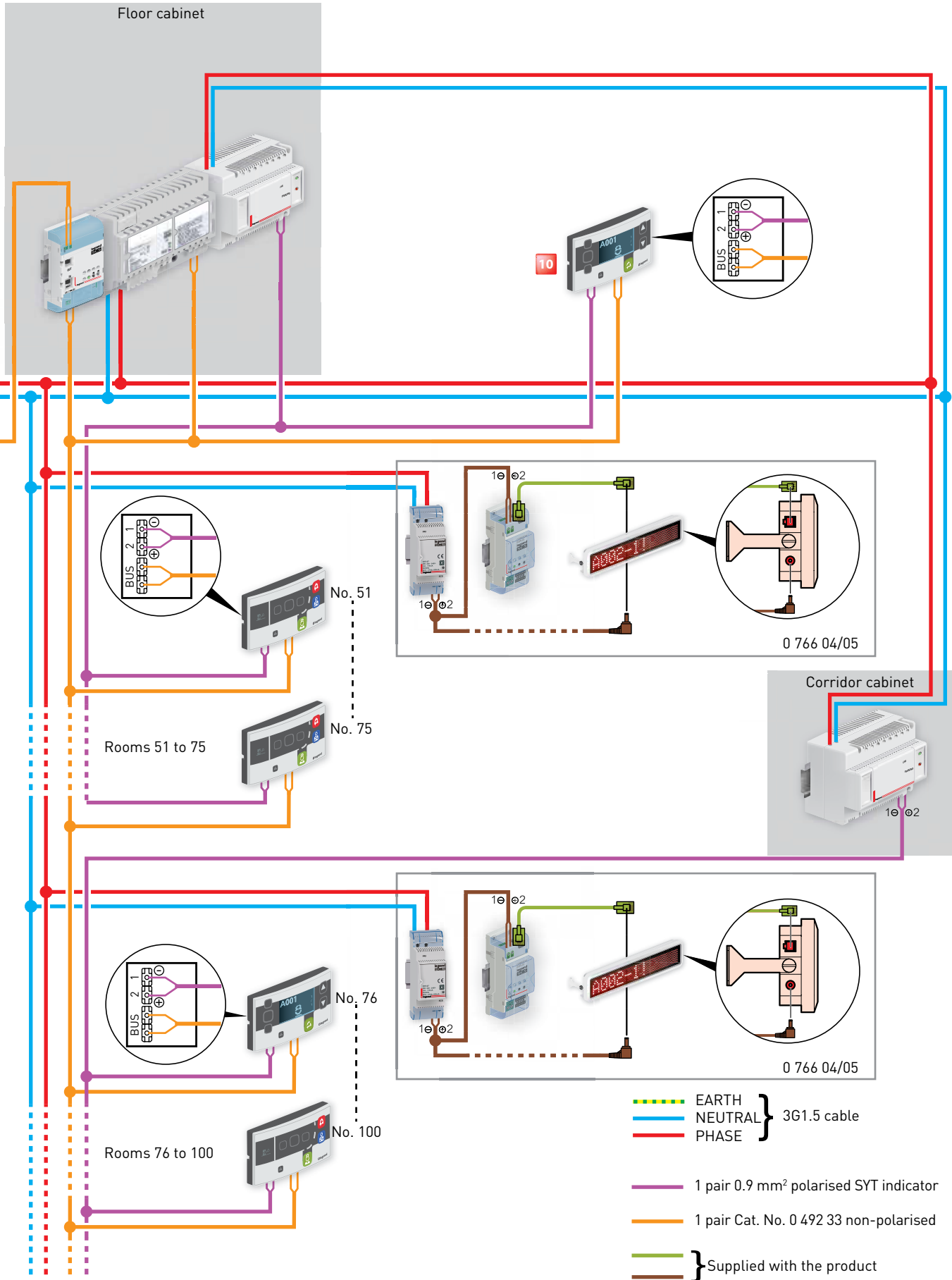




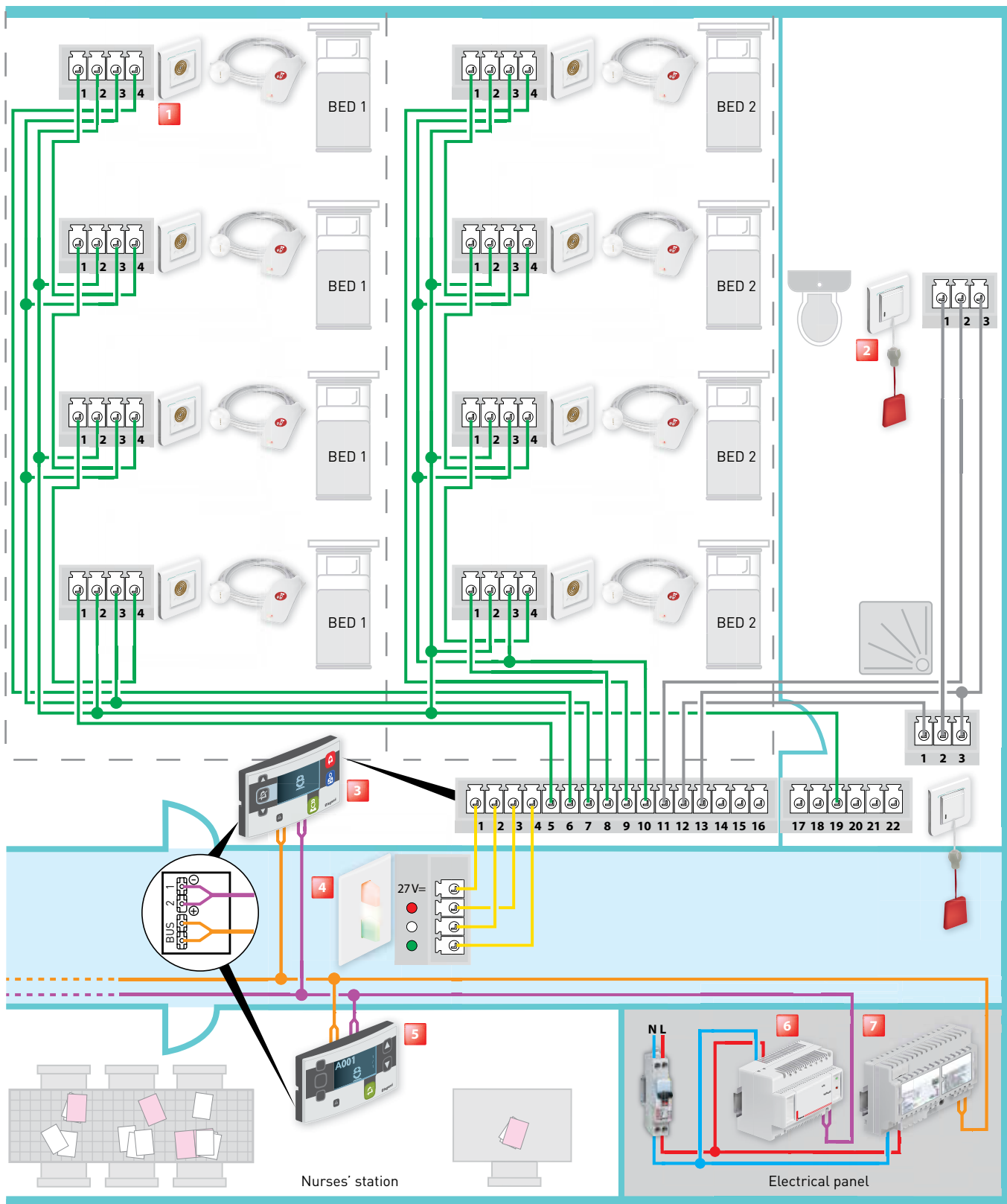
# Wiring: 230 V cable and BUS cable (SCS + indicators)



# installed in corridors + DECT interface and RS232/IP interface



# Wiring: Rooms of up to 8 beds without bed identification



**1** Socket + hand-held remote control unit for calls  
Cat. Nos. 0 782 41/46 + 0 782 40  
or 0 782 45/47 + 0 782 42/44

**3** Door unit with display unit Cat. Nos. 0 766 07/06

**6** Indicator power supply Cat. No. 0 782 90

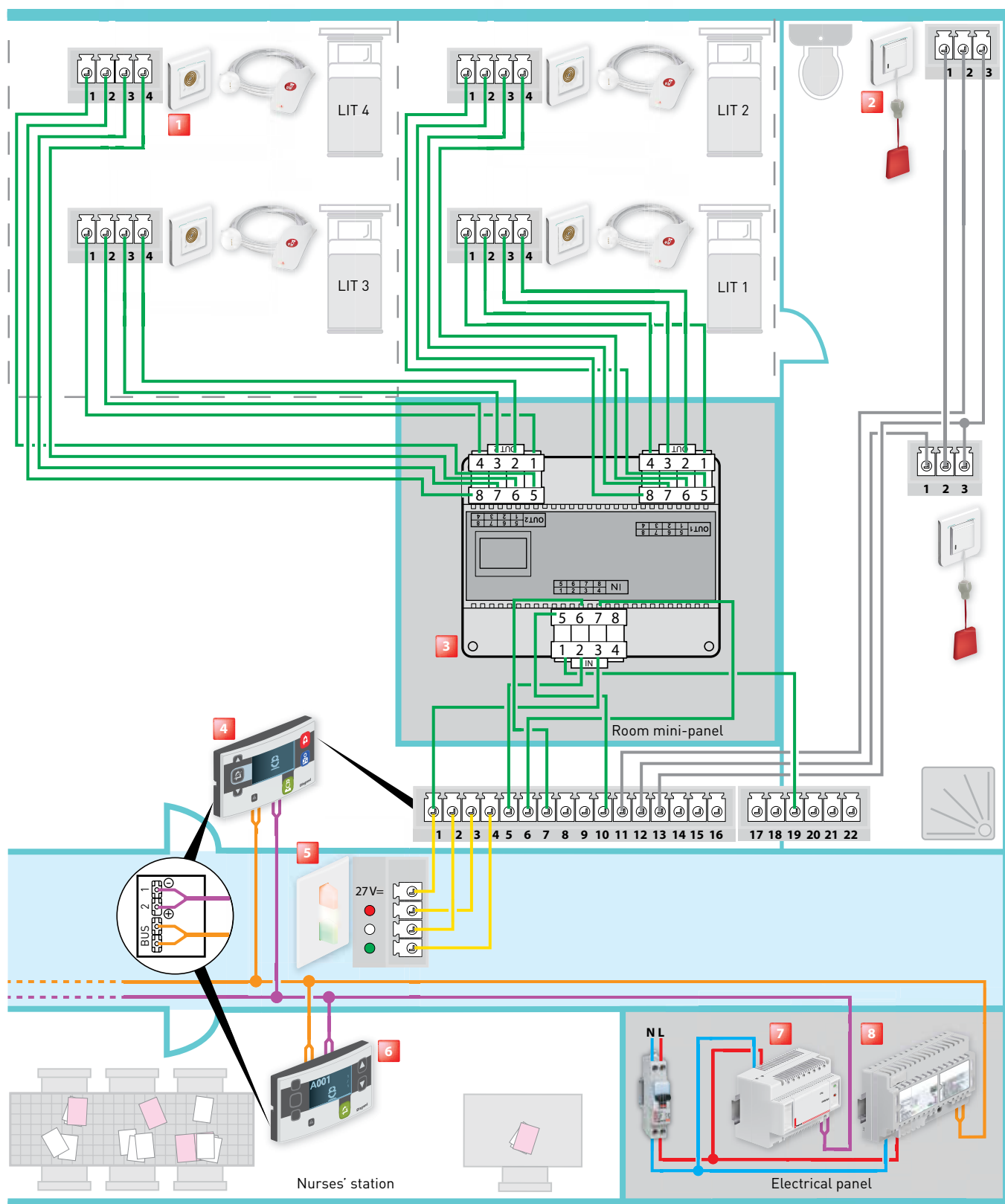
**2** Bathroom call pull-cord Cat. No. 0 782 48

**4** Monobloc corridor overdoor unit  
Cat. No. 0 766 70

**7** BUS/SCS power supply Cat. No. 0 035 60  
or E46ADCN

**5** Main nurses' control unit Cat. No. 0 766 11

# Wiring: Rooms of up to 4 beds with bed identification



**1** Socket + hand-held remote control unit for calls  
Cat. Nos. 0 782 41/46 + 0 782 40  
or 0 782 45/47 + 0 782 42/44

**2** Bathroom call pull-cord Cat. No. 0 782 48

**3** Bed extension Cat. No. 0 782 19 for  
door unit Cat. Nos. 0 766 06/07

**4** Monobloc corridor overdoor unit  
Cat. No. 0 766 70

**5** Main nurses' control unit Cat. No. 0 766 11

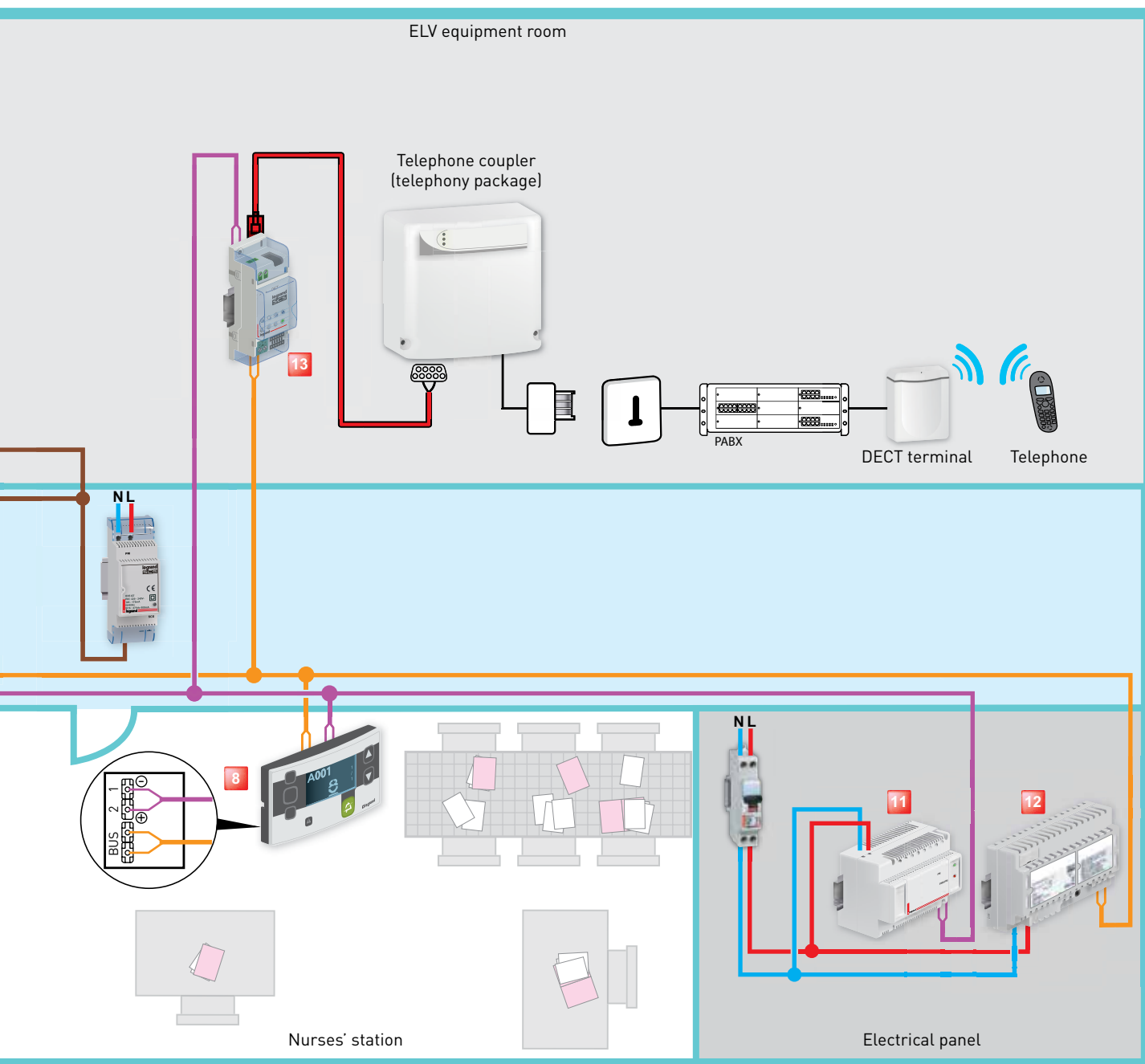
**6** Indicator power supply Cat. No. 0 782 90

**7** BUS/SCS power supply Cat. No. 0 035 60  
or E46ADCN

**8** Main nurses' control unit Cat. No. 0 766 11



# with transmitter and radio receiver



**4** Monobloc corridor overdoor unit Cat. No. 0 766 70

**6** Corridor display unit Cat. No. 0 766 04 with interface and power supply

**7** Bathroom call pull-cord Cat. No. 0 782 48

**8** Main nurses' control unit Cat. No. 0 766 11

**9** Secondary nurses' control unit Cat. No. 0 766 09

**10** Call unit Cat. No. 0 766 85

**11** Indicator power supply Cat. No. 0 782 90

**12** BUS/SCS power supply Cat. No. 0 035 60 or E46ADCN

**13** DECT interface Cat No. 0 766 19

— 1 pair 0.9 mm<sup>2</sup> polarised SYT indicator

— 1 pair Cat. No. 0 492 33 non-polarised

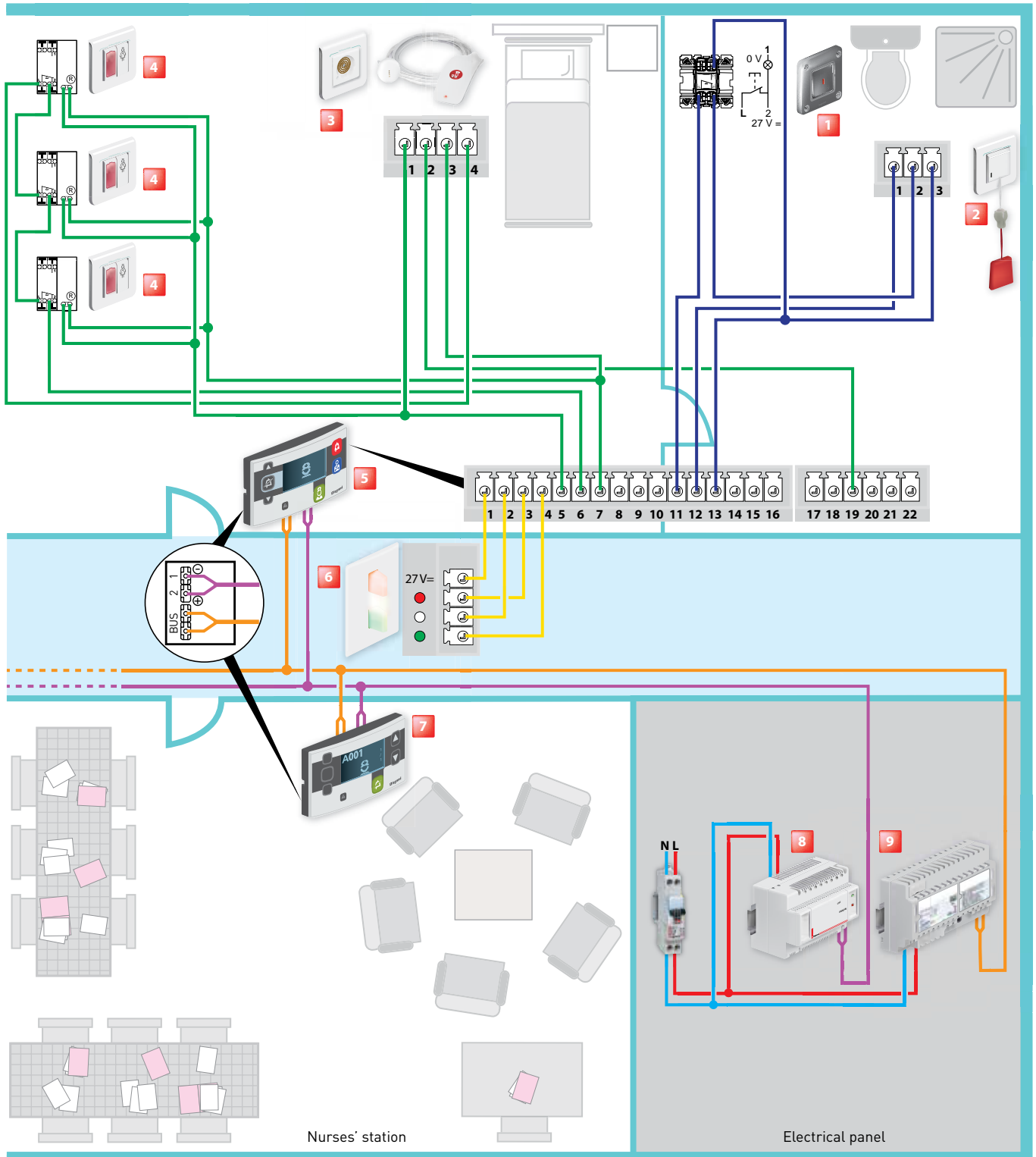
Star wiring recommended

— } 2 or 3 pairs 0.6 or 0.9 mm<sup>2</sup> SYT

— } Supplied with the product

# Wiring: multipoint bed call + bathroom call with high-resistance call button

**⚠ Do not fully clip on the door units**



**1** High-resistance call unit  
Cat. No. 0 782 51

**2** Bathroom call pull-cord Cat. No. 0 782 48

**3** Socket + hand-held remote control for calls  
Cat. Nos. 0 782 41/46 + 0 782 40  
or 0 782 45/47 + 0 782 42/44

**4** Bathroom call units  
or call button Cat. No. 0 766 85

**5** Door unit with display unit Cat. Nos. 0 766 07/06

**6** Monobloc corridor overdoor unit  
Cat. No. 0 766 70

**7** Main nurses' control unit Cat. No. 0 766 11

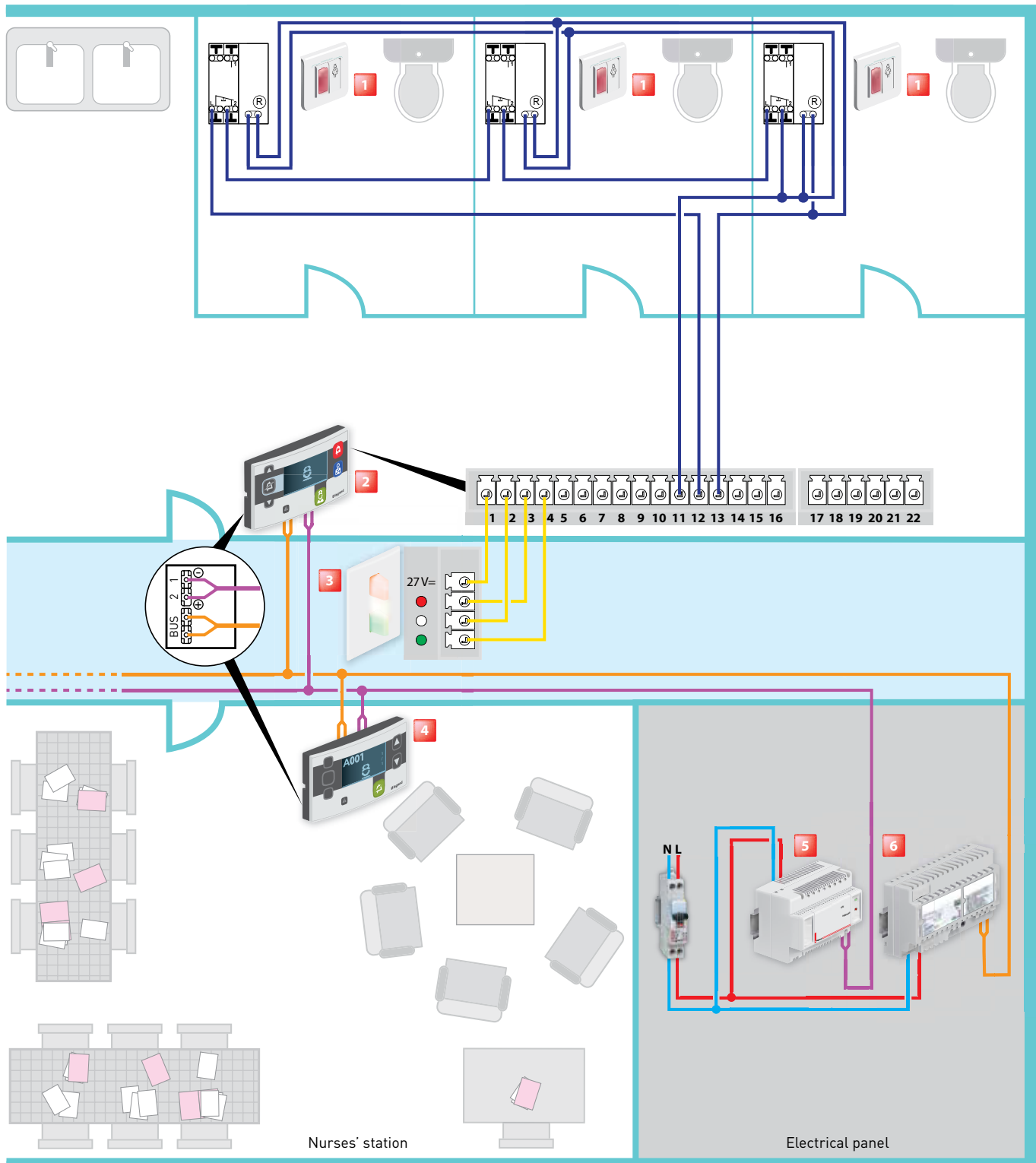
**8** Indicator power supply Cat. No. 0 782 90

**9** BUS/SCS power supply Cat. No. 0 035 60  
or E46ADCN

— 1 pair 0.9 mm<sup>2</sup> polarised SYT indicator  
— 1 pair Cat. No. 0 492 33 non-polarised  
Star wiring recommended

— } 2 or 3 pairs 0.6 or 0.9 mm<sup>2</sup> SYT

# Wiring: toilets in public area



**1** Bathroom call units or call button  
Cat. No. 0 766 85

**2** Door unit with display unit Cat. Nos. 0 766 07/06

**3** Monobloc corridor overdoor unit  
Cat. No. 0 766 70

**4** Main nurses' control unit Cat. No. 0 766 11

**5** Indicator power supply Cat. No. 0 782 90

**6** BUS/SCS power supply Cat. No. 0 035 60  
or E46ADCN

— 1 pair 0.9 mm<sup>2</sup> polarised SYT indicator

— 1 pair Cat. No. 0 492 33 non-polarised

Star wiring recommended

— } 2 or 3 pairs 0.6 or 0.9 mm<sup>2</sup> SYT

# Wiring: replacing ELIOCAD call and nurse presence programme systems

## OVERVIEW

---

There are several ways to replace an Eliocad system:

### 1. Complete rebuilding of a department (extensive refurbishment)

Isolate a department and replace it (by changing all the devices and redoing the wiring) with the BUS/SCS nurse call system in order to benefit from new functions (see diagrams on previous pages).

### 2. Modernising the nurse call system with the department closed

Isolate a department and partially replace it (keeping the existing wiring) with the BUS/SCS nurse call system. In this case only the system devices (communicating devices) are replaced. This allows the change to be made at minimum cost while still benefiting from new functions (traceability, call-forwarding over DECT, automatic fault acknowledgement when replacing a hand-held remote control unit, cyclical switching on and off of the corridor overdoor light unit for fault indication, etc).

### 3. Modernising the nurse call system with the site in use

Replace a department with the site in use, without affecting patient rooms. New BUS cables must be pulled through the corridors and indicators installed, and new power supplies (BUS + indicator) installed so that the 2 systems work in parallel. Door units Cat. No. 0 766 06 + box Cat. No. 0 766 14 are installed on Eliocad call and nurse presence programmes one by one instead of the interfaces.

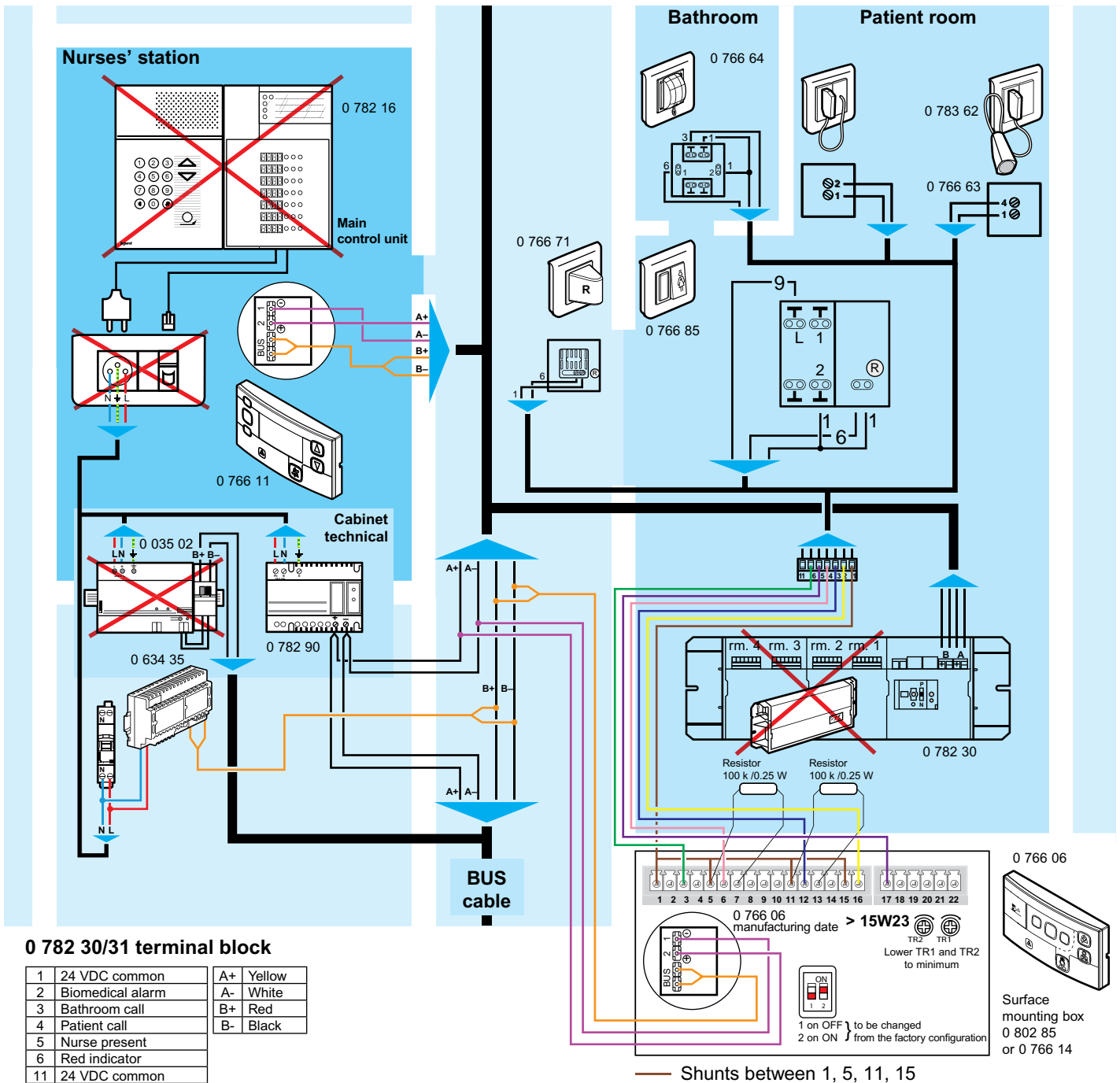
The new main control unit, new secondary control units, new corridor display units and other functions should be installed in parallel as required (call-forwarding over DECT, traceability, etc).

**NB:** - One indicator power supply 0 782 90 is needed for 25 rooms (check the existing Eliocad for comparison)

- On Eliocad, unused inputs are shunted with a 24 V common (terminals 1 or 10 or 11).

On the BUS/SCS system, unused inputs can be disabled during programming.

# Wiring: replacing ELIOCAD call programme with the BUS/SCS nurse call system



## 0 782 30/31 terminal block

1	24 VDC common	A+	Yellow
2	Biomedical alarm	A-	White
3	Bathroom call	B+	Red
4	Patient call	B-	Black
5	Nurse present		
6	Red indicator		
11	24 VDC common		

Interface terminal block 0 782 30/31	SCS door unit 0 766 06
1	1 5 11 15
2	16
3	12
4	6
5	17
6	3
11	15 11 5 1

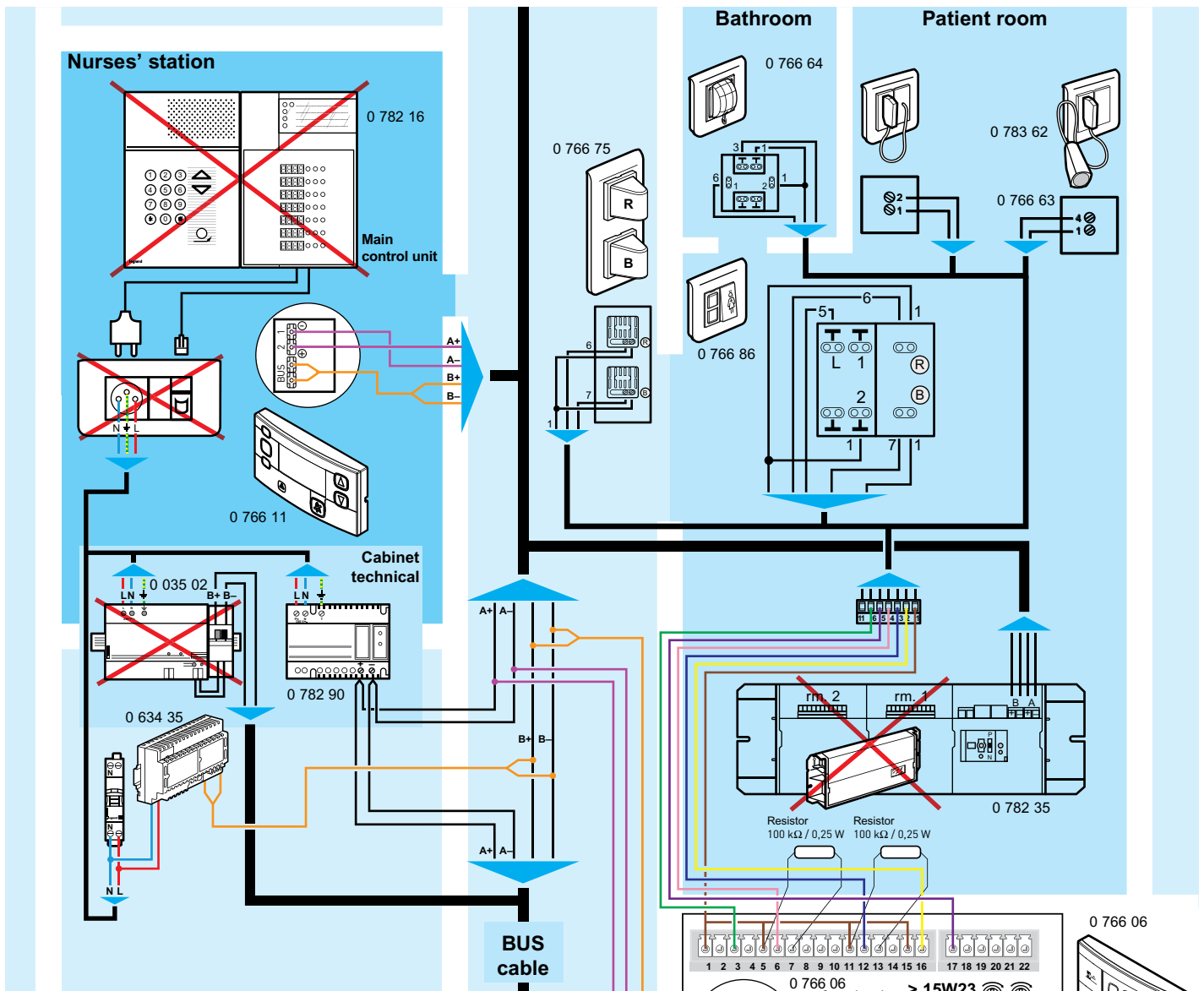
EIB BUS cable (green)	Interface terminal block 0 782 30/31	SCS door unit 0 766 06/11/09
Red	B+ Red	BUS } non- polarised
Black	B- Black	
Yellow	A+ Yellow	2
White	A- White	1

1 interface 0 782 30 = 4 door units 0 766 06

1 interface 0 782 31 = 2 door units 0 766 06

Recommendation: to connect the door unit, disconnect and reconnect it one wire at a time.

# Wiring: replacing ELIOCAD nurse presence programme with the BUS/SCS nurse call system



## 0 782 35 terminal block

1	24 VDC common	7	Yellow indicator	A+	Yellow
2	Biomedical alarm	8	Green indicator	A-	White
3	Bathroom call	9	Presence 2	B+	Red
4	Patient call	10	24 VDC common	B-	Black
5	Nurse present	11	24 VDC common		
6	Red indicator				

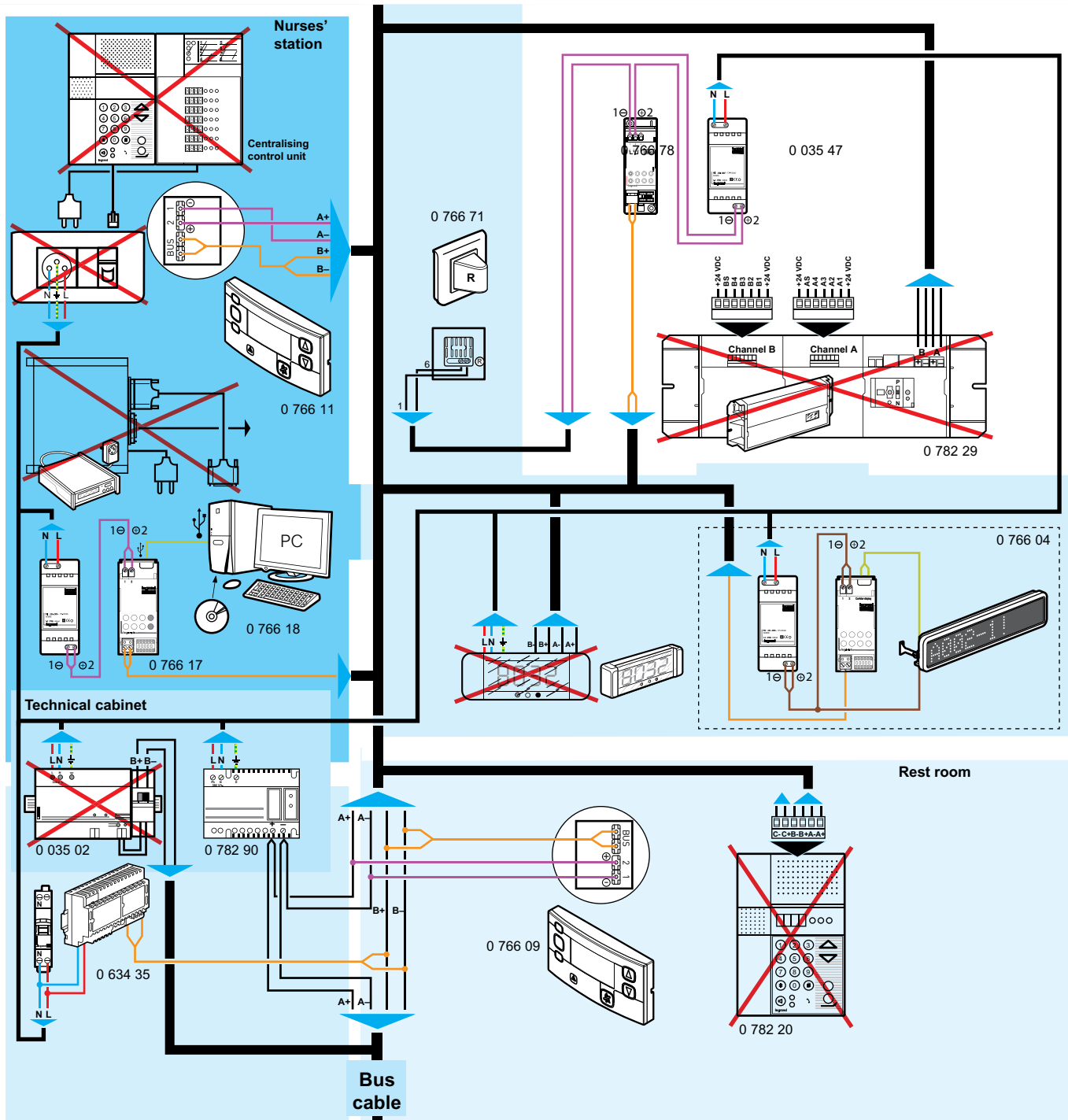
Interface terminal block 0 782 35	SCS door unit 0 766 06
1	1 → 5 → 11 → 15
2	16
3	12
4	6
5	17
6	3
7	4
8	NO
9	NO
10	15 → 11 → 5 → 1
11	15 → 11 → 5 → 1

EIB BUS cable (green)	Interface terminal block 0 782 35	SCS door unit 0 766 06/11/09
Red	B+ Red	} non- BUS } polarised
Black	B- Black	
Yellow	A+ Yellow	2
White	A- White	1

1 interface 0 782 35 = 2 door units 0 766 06

Recommendation: to connect the door unit, disconnect and reconnect it one wire at a time.

# Wiring: replacing ELIOCAD additional devices with BUS/SCS nurse call system devices



## 0 782 29 terminal block

1	24 VDC common	A+	Yellow
4	Patient call	A-	White
5	Nurse present	B+	Red
6	Red indicator	B-	Black
7	Yellow indicator		
8	Green indicator		
9	Presence 2		

**Caution:** Terminals 6 and 7 power min. 1.2 Watts  
max. 7 Watts  
If there is no power, insert a 470 Ω/5 W resistor

# Parameter setting

## DEVICE CONFIGURATION

---

10 areas (departments) can be managed in a physical configuration.

- For any installation with fewer than 80 directions (rooms) per department, physical configuration is possible (using configurators).
- Virtual configuration is obligatory when there are more than 80 directions per department.

20 additional addresses are reserved for:

- secondary control unit
- corridor display unit (maximum 5)
- traceability
- call-forwarding over DECT
- door controller for secure wandering
- bus extension

## PHYSICAL DEVICE CONFIGURATION

**!** Physical configuration (using configurators) and virtual configuration (software programming) are not compatible.

Physical configuration is achieved by inserting the configurators, distinguished by either a number or graphic, into the correct location in each device.

This mode should be used for installations with no more than 100 devices in each area (80 directions (rooms) + 20 additional addresses).



Cat. Nos. 0 492 00/01/02/03/04/05/06/07/08/09  
or Cat. Nos. 3501/0/1/2/3/4/5/6/7/8/9



Cat. No. 0 261 45 or 3501K

### Case comprising:

- 10 "0" configurators (Cat. No. 0 492 00 or 3501/0)
- 10 "1" configurators (Cat. No. 1 492 01 or 3501/1)
- 10 "2" configurators (Cat. No. 2 492 02 or 3501/2)
- 10 "3" configurators (Cat. No. 3 492 03 or 3501/3)
- 10 "4" configurators (Cat. No. 4 492 04 or 3501/4)
- 10 "5" configurators (Cat. No. 5 492 05 or 3501/5)
- 10 "6" configurators (Cat. No. 6 492 06 or 3501/6)
- 10 "7" configurators (Cat. No. 7 492 07 or 3501/7)
- 10 "8" configurators (Cat. No. 8 492 08 or 3501/8)
- 10 "9" configurators (Cat. No. 9 492 09 or 3501/9)

### Example of equipment needed according to the number of rooms

Cat. Nos.	Number of boxes to equip 50 rooms	Ratio of boxes/number of rooms
0 261 45 or 3501K	1	1/50
0 492 01 or 3501/1	10	1/5
0 492 02 or 3501/2	10	1/5
0 492 03 or 3501/3	5	1/10
0 492 04 or 3501/4	5	1/10
0 492 05 or 3501/5	5	1/10
0 492 06 or 3501/6	5	1/10
0 492 20 or 3501/T	1	1/50

### Configuration of the main nurses' control unit Cat. No. 0 766 11

A: indicates the area to which the device belongs (0 to 9)

N1: not in use

N2: not in use

M1: 1 for the first control unit

M2: not in use

### Configuration of the secondary control unit Cat. No. 0 766 09

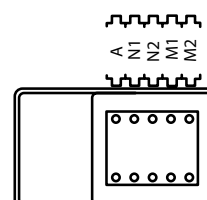
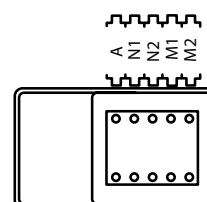
A: indicates the area to which the device belongs (0 to 9)

N1: indicates the secondary control unit number (0 to 9)

N2: indicates the secondary control unit number (0 to 9)

M1: 2

M2: not in use

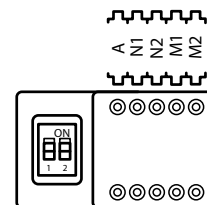


# Parameter setting (continued)

## PHYSICAL DEVICE CONFIGURATION (CONTINUED)

### Configuration of door unit with indicators Cat. No. 0 766 06

- A: indicates the area to which the device belongs (0 to 9)  
 N1: indicates the room number (0 to 9)  
 N2: indicates the room number (0 to 9)  
 M1: terminal operating mode (see table)  
 M2: bathroom acknowledgement mode (see table):  
 - 1 = door unit  
 - 2 = additional push-button in the bathrooms  
 - Ø = no configurator



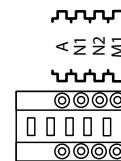
Config. M1	Hand RC Bed 1	Hand RC Bed 2	Bathroom	Biomedical contact	Wandering	Config. M2
1	✓	X	X	X	X	Ø
2	✓	X	✓	X	X	1/2
3	✓	X	✓	✓	X	1/2
4	✓	✓	X	X	X	Ø
5	✓	✓	✓	X	X	1/2
6	✓	✓	✓	✓	X	1/2
7	X	X	✓	X	X	1/2
8	X	X	X	X	✓	Door no. (0 to 9)

### Configuration of the door unit with display unit Cat. No. 0 766 07

- A: indicates the area to which the device belongs (0 to 9)  
 N1: indicates the room number (0 to 9)  
 N2: indicates the room number (0 to 9)  
 M1: terminal operating mode (see table)  
 M2: bathroom acknowledgement mode (see table):  
 - 1 = door unit  
 - 2 = additional push-button in the bathrooms

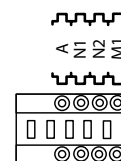
### Configuration of the display unit interface Cat No. 0 766 04

- A: indicates the area to which the device belongs (0 to 9)  
 N1: indicates the device address (0 to 9)  
 N2: indicates the device address (0 to 9)  
 M1: audible signalling mode:  
 - 1 = buzzer enabled  
 - 2 = buzzer disabled



### Configuration of the DECT interface Cat No. 0 766 19

- A: indicates the area to which the device belongs (0 to 9)  
 N1: indicates the device address (0 to 9)  
 N2: indicates the device address (0 to 9)  
 M1: type of message sent over the ESPA 4.4.4. (see table)



Config. M1	Error message	Alarm	Emergency	Call
1	✓	X	X	X
2	✓	✓	X	X
3	✓	✓	✓	X
4	✓	✓	✓	✓

### Configuration of the BUS/SCS extension Cat. No. 0 766 10

- "Physical extension" mode - repeater version

This mode should be used whenever it is necessary to extend the physical limit of the maximum length of the bus, but not the limit of the number of addresses in the area.

In this mode, configurator Cat. No. 0 492 20/3501/T is inserted in A, N1, N2 and M1 are not used (empty).

- Logical extension" mode - in gateway version

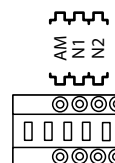
This mode is used to create a riser in order to connect the various departments to it.

A: indicates the area to which the device belongs (0 to 9)

N1: indicates the device address (0 to 9)

N2: indicates the device address (0 to 9)

M1: not in use



### Configuration of the traceability interface Cat No. 0 766 17

A: indicates the area to which the device belongs (0 to 9)

N1: indicates the device address (0 to 9)

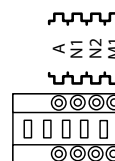
N2: indicates the device address (0 to 9)

M1: operating mode when the interface memory is full:

- 1: older records are overwritten by new ones

- 2: new records are suspended until old records have been saved and deleted from the interface

M2: not in use



### Configuration of the information feedback interface Cat No. 0 766 78

A: indicates the area to which the device belongs (0 to 9)

N1: indicates the device address (0 to 9)

N2: indicates the device address (0 to 9)

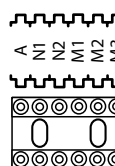
M1: operating mode:

- 1: buzzer mode

- 2: indicator mode

M2: buzzer operating mode (see table) (sounds intermittently. See interface data sheet in *Device presentation and installation* section)

M3: not in use



M1 and M2 must have a configurator that is not 0

Config. M2	Patient call	Bathroom call	Emergency call	High-level emergency
1	✓	✓	✗	✗
2	✗	✗	✓	✗
3	✓	✓	✓	✗
4	✗	✗	✗	✓
5	✓	✓	✗	✓
6	✗	✗	✓	✓
7	✓	✓	✓	✓

# Parameter setting (continued)

## PHYSICAL DEVICE CONFIGURATION (CONTINUED)

Example:

Installation for an area comprising:

- 10 rooms with door unit for 2 beds, biomedical alarm and lavatory
- 1 main control unit for the monitoring station, 1 secondary control unit
- 1 corridor display unit with audible signalling, 1 traceability interface, 1 DECT interface and 1 feedback interface (indicator configuration)

Door units Cat. Nos. 0 766 06/07

A	N1	N2	M1	M2
0	0	1	6	1



A	N1	N2	M1	M2
0	0	2	6	1



A	N1	N2	M1	M2
0	0	3	6	1



A	N1	N2	M1	M2
0	0	4	6	1



A	N1	N2	M1	M2
0	0	5	6	1



A	N1	N2	M1	M2
0	0	6	6	1



A	N1	N2	M1	M2
0	0	7	6	1



A	N1	N2	M1	M2
0	0	8	6	1



A	N1	N2	M1	M2
0	0	9	6	1

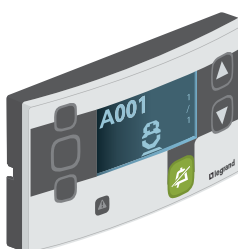


A	N1	N2	M1	M2
0	1	0	6	1



**Main nurses' control unit**  
Cat. No. 0 766 11

A	N1	N2	M1	M2
0	0	0	1	/



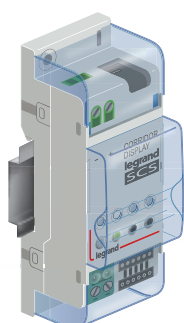
**Secondary control unit**  
Cat. No. 0 766 09

A	N1	N2	M1	M2
0	9	9	2	/



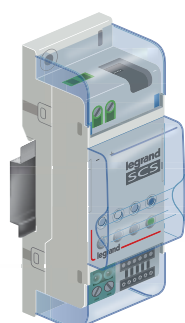
**Interface for corridor display unit**  
Cat. No. 0 766 04

A	N1	N2	M1
0	9	8	1



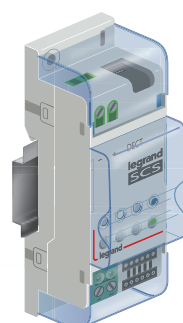
**Traceability interface**  
Cat. No. 0 766 17

A	N1	N2	M1
0	9	7	1



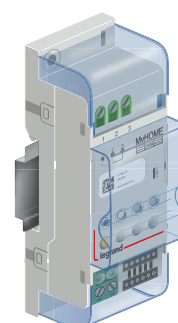
**DECT interface**  
Cat. No. 0 766 19

A	N1	N2	M1
0	9	6	4



**Feedback interface**  
Cat. No. 0 766 78  
(indicator configuration)

A	N1	N2	M1	M2	M3
0	9	5	2	7	0



# Parameter setting (continued)

## PHYSICAL DEVICE CONFIGURATION (CONTINUED)

This section describes the essential concepts of 'physical' and 'virtual' device configuration.

To understand the addressing logic, the terms used in the text are defined below:

- Area (A): All devices belonging to the same nursing department (max. 10 areas in physical configuration: A, B, C... J and max. 14 areas in virtual configuration: A, B, C... N).
- N1–N2: Numerical identifier for each room in the department (nurse).
- M1–M2: These configurators identify the device operating mode.

### Healthcare building with 1 department of 80 rooms on 1 floor in physical configuration

Department A Cat. No. 0 766 11
Room 1 → 80

**Main nurses' control unit Cat. No. 0 766 11**

A	N1	N2	M1	M2
0	0	0	1	/



Display: 001 to 080  
**not modifiable**

**Door units Cat. Nos. 0 766 06/07**

A	N1	N2	M1	M2
0	0	1	2	1



Configuration for room no. 1  
in department A with 1 bed  
and 1 bathroom

### Healthcare building with 3 floors in physical configuration

Department C  
Cat. No. 0 766 11  
Room 1 → 80

**Main nurses' control unit**  
Cat. No. 0 766 11

A	N1	N2	M1	M2
2	0	0	1	/



Display: 001 to 080  
**not modifiable**

**Door units**  
Cat. Nos. 0 766 06/07

A	N1	N2	M1	M2
2	0	1	2	1



Configuration for room no. 1  
in department C with 1 bed  
and 1 bathroom

**Floor 3**

Department B  
Cat. No. 0 766 11  
Room 1 → 80

**Main nurses' control unit**  
Cat. No. 0 766 11

A	N1	N2	M1	M2
1	0	0	1	/



Display: 001 to 080  
**not modifiable**

**Door units**  
Cat. Nos. 0 766 06/07

A	N1	N2	M1	M2
1	0	1	2	1



Configuration for room no. 1  
in department B with 1 bed  
and 1 bathroom

**Floor 2**

Department A  
Cat. No. 0 766 11  
Room 1 → 80

**Main nurses' control unit**  
Cat. No. 0 766 11

A	N1	N2	M1	M2
0	0	0	1	/



Display: 001 to 080  
**not modifiable**

**Door units**  
Cat. Nos. 0 766 06/07

A	N1	N2	M1	M2
0	0	1	2	1



Configuration for room no. 1  
in department A with 1 bed  
and 1 bathroom

**Floor 1**

**Positionable on floor 1, 2 or 3**

**Main control unit**  
Cat. No. 0 766 11 with  
feedback enabled (4 max.)

A	N1	N2	M1	M2
3	0	0	1	/

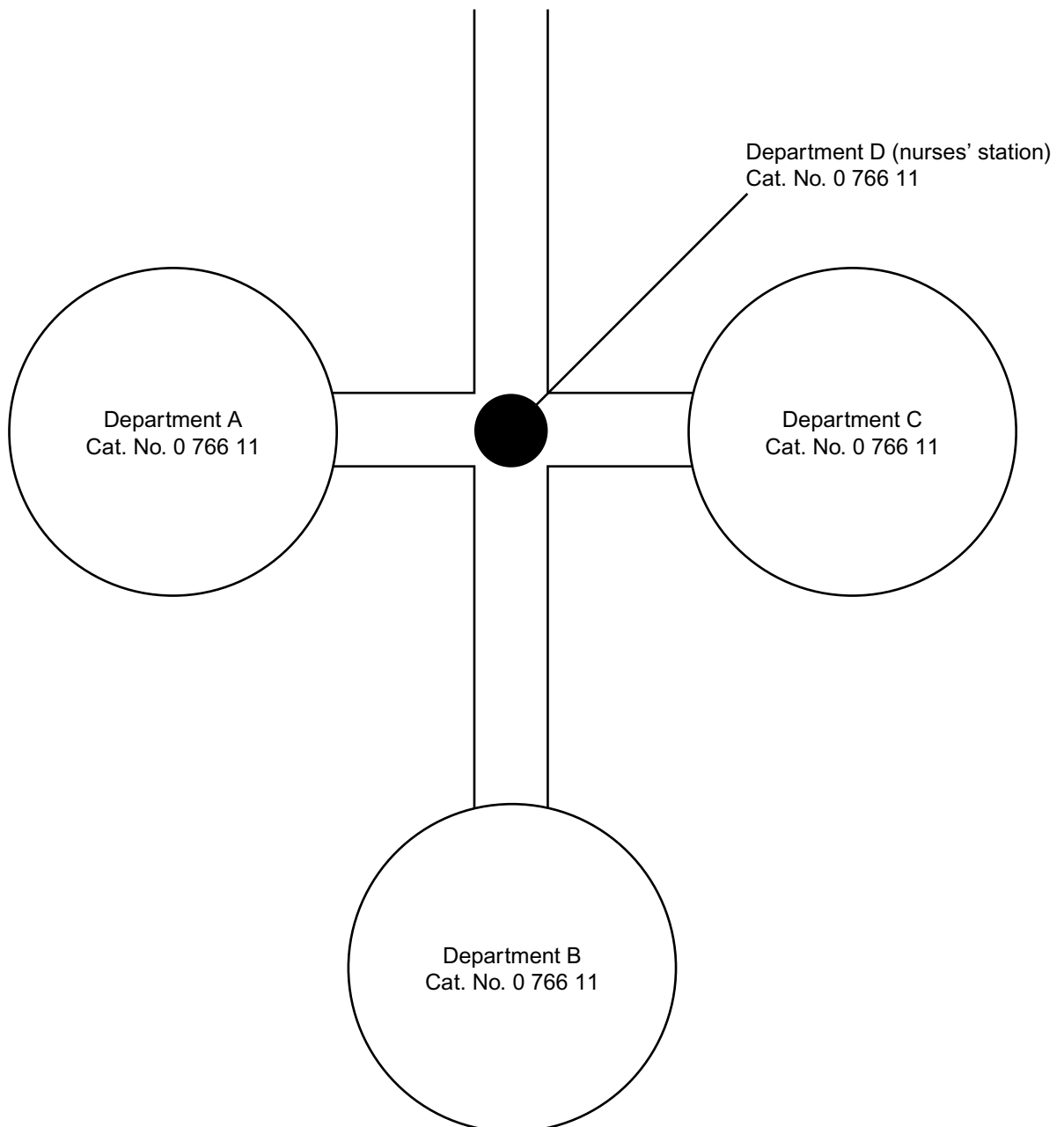


Display: A001 to A080,  
B001 to B080,  
C001 to C080  
**not modifiable**

# Parameter setting (continued)

## PHYSICAL DEVICE CONFIGURATION (CONTINUED)

Healthcare building with 3 wings



**Nurses' station control unit Cat. No. 0 766 11**

A	N1	N2	M1	M2
2	0	0	1	/



Display: 001 to 080  
**not modifiable**

**Door units Cat. Nos. 0 766 06/07**

A	N1	N2	M1	M2
2	0	1	2	1



Configuration for room no. 1 in department C with 1 bed and 1 bathroom

**Nurses' station control unit Cat. No. 0 766 11**

A	N1	N2	M1	M2
1	0	0	1	/



Display: 001 to 080  
**not modifiable**

**Door units Cat. Nos. 0 766 06/07**

A	N1	N2	M1	M2
1	0	1	2	1



Configuration for room no. 1 in department B with 1 bed and 1 bathroom

**Nurses' station control unit Cat. No. 0 766 11**

A	N1	N2	M1	M2
0	0	0	1	/



Display: 001 to 080  
**not modifiable**

**Door units Cat. Nos. 0 766 06/07**

A	N1	N2	M1	M2
0	0	1	2	1



Configuration for room no. 1 in department A with 1 bed and 1 bathroom

**Main control unit Cat. No. 0 766 11 with feedback enabled (4 max.)**

A	N1	N2	M1	M2
3	0	0	1	/

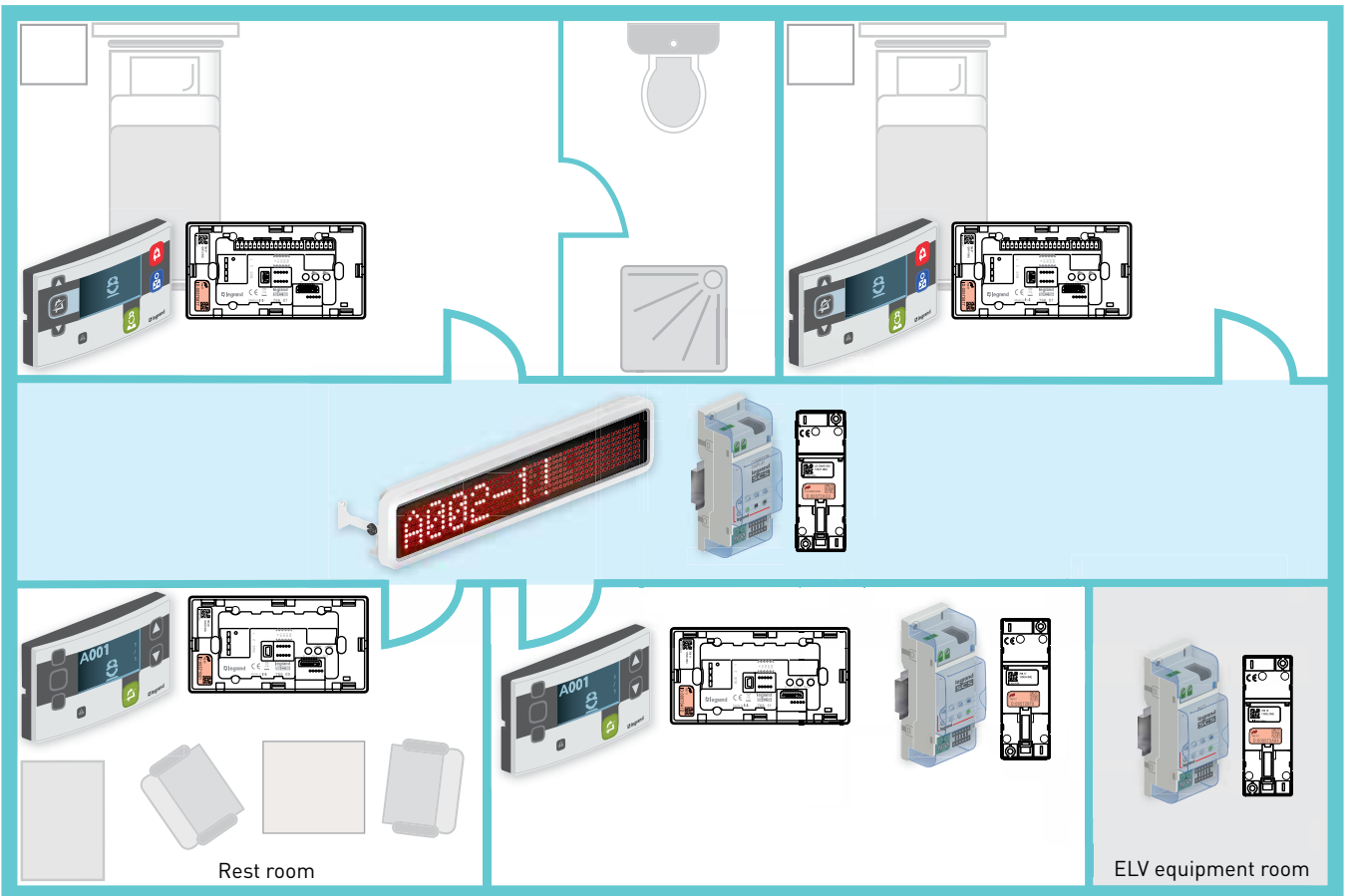
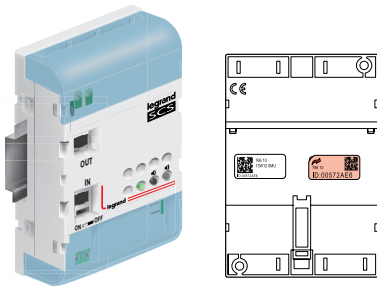


Display: A001 to A080, B001 to B080, C001 to C080  
**not modifiable**

# Parameter setting (continued)

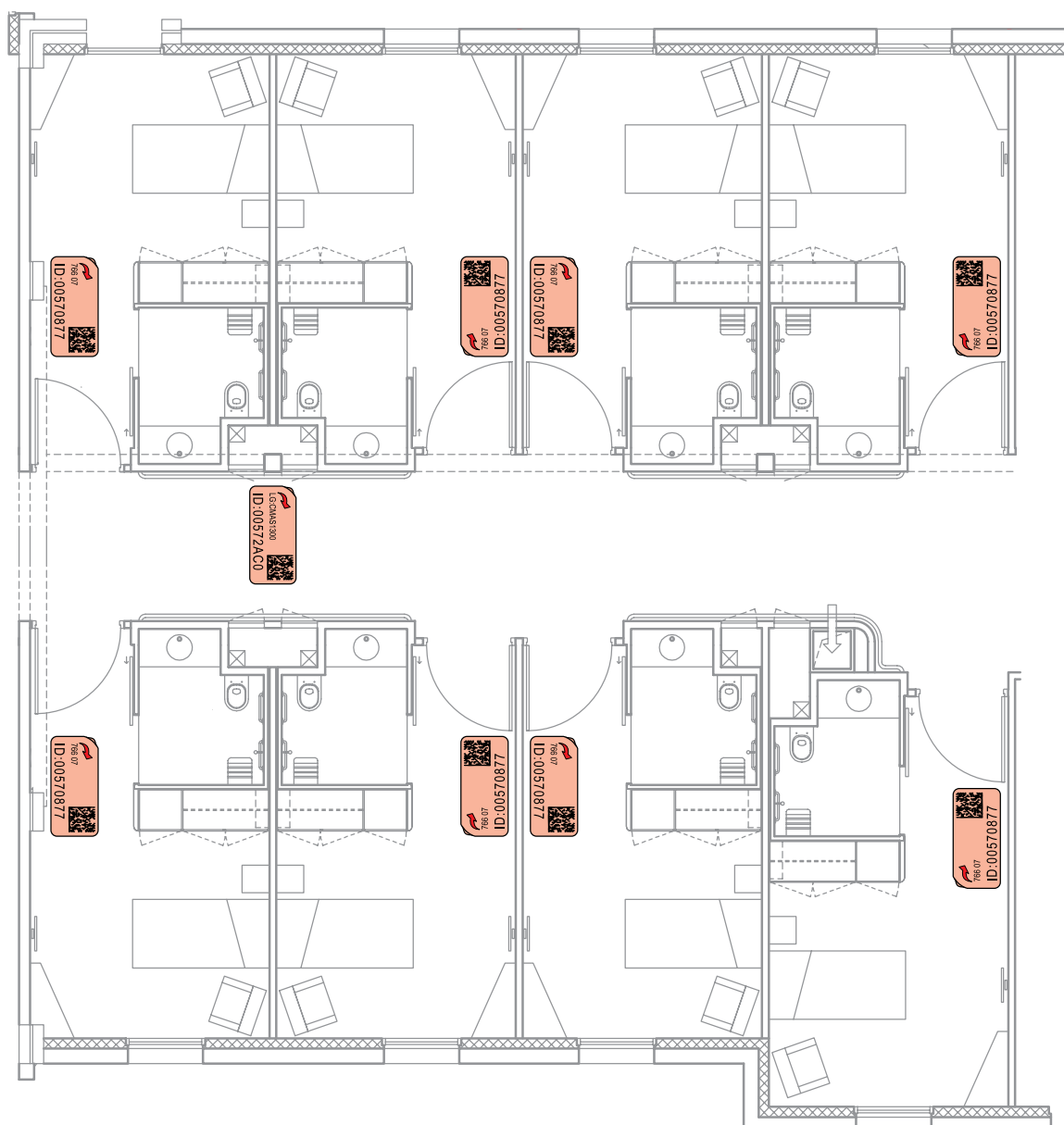
## PREPARING THE PLAN FOR VIRTUAL CONFIGURATION (CONTRACTOR)

Stick ID labels of all the BUS products (surface mounting, flush mounting, ceiling mounting and modular wiring accessories) on a plan, taking care to place products in the correct physical position.



## PREPARING THE PLAN FOR VIRTUAL CONFIGURATION (CONTRACTOR)

**!** For personal radio transmitters (Cat. Nos. 21PDER904, 21PMOR902 and 21PDER911), we suggest you create an equivalence table between the product ID and the room to which it is attached.



# Parameter setting (continued)

## VIRTUAL DEVICE CONFIGURATION

**⚠** Physical configuration (using configurators) and virtual configuration (software programming) are not compatible.

When a product has been configured using configurators, to configure it virtually (software programming):

- 1 Remove the configurators
- 2 Switch off the BUS and indicator power supplies for 30 sec. minimum

### Principle

Install the Nurse Call Configurator software Cat. No. 0 766 15 on the PC where the parameters will be set.

The hospital system virtual configuration can be used to:

- Extend the number of rooms per department to 150 rather than 80 for the physical configuration.
- Have 4-digit room numbering including the department name in numbers or letters.
- Have a backup of the project.

### Setup

Virtual configuration of the hospital system is done on a PC. The virtual configuration software Cat. No. 0 766 15 therefore needs to be installed on a PC.

There are 3 options for virtual configuration:

- The configuration kit should be used independently of the installation (standalone).

- The configuration kit should be connected to the installation.

- Web server Cat. No. F454 should be installed in an enclosure connected to the vertical BUS or floor BUS.

**While it is being used, the nurse call system is no longer operational.**

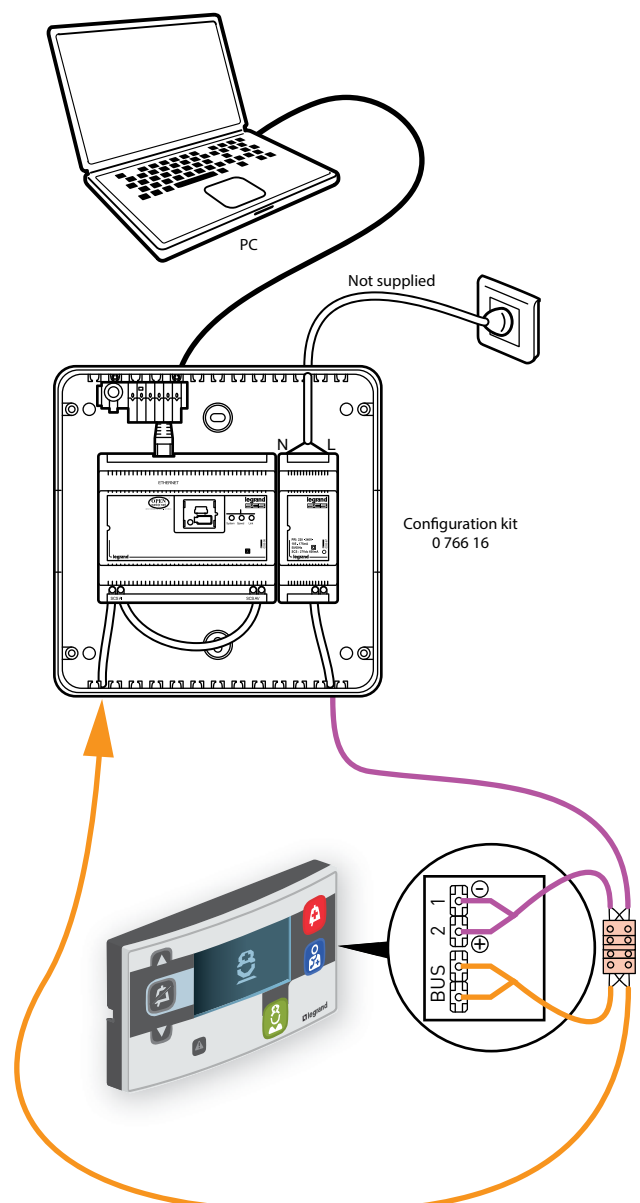
The PC should be linked to the interface via a data link (IP). The configuration kit should have a static IP address (192.168.1.35 by default).

### Product replacement

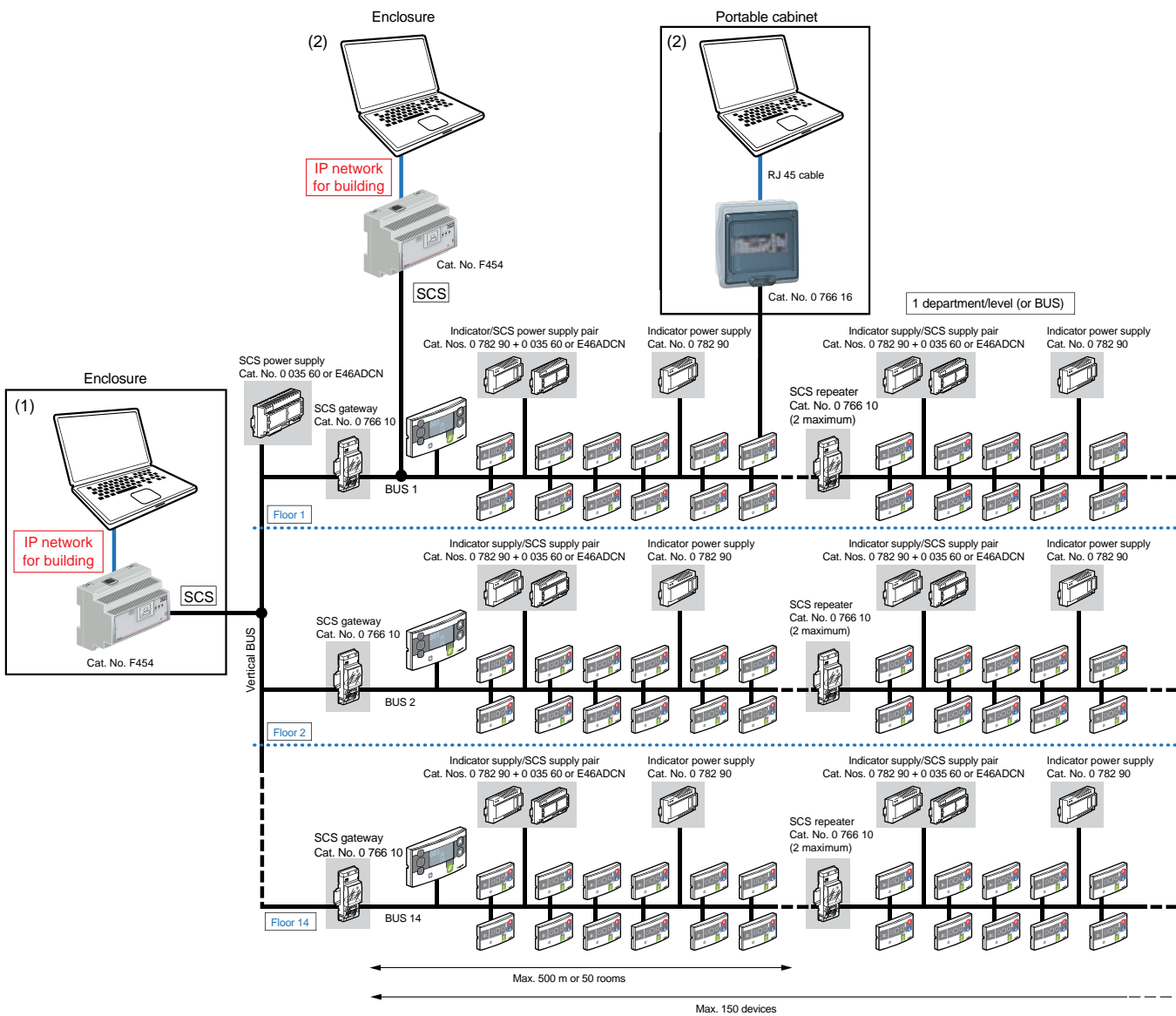
A faulty product should be replaced independently of the installation (see diagram opposite).

Refer to section: procedure for replacing a product.

### Configuration independently of the installation (standalone)



## Configuration on the installation



- (1) ⚠ Parameter setting prevents the whole building from working  
 (2) ⚠ Disconnect gateway Cat. No. 0 766 10 from the floor. After this, parameter setting only prevents the floor concerned from working

# Parameter setting (continued)

## VIRTUAL DEVICE CONFIGURATION (CONTINUED)

### Launching the Nurse Call Configurator

Change the PC to static IP address: 192.168.1.100 (recommended)

Once the Nurse Call Configurator software has started:

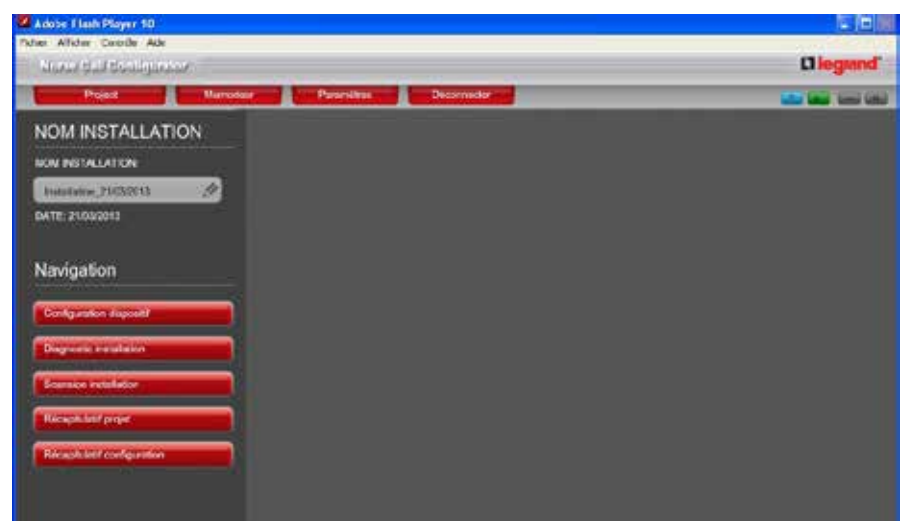
- Enter the IP address of configuration kit Cat. No. 0 766 16: 192.168.1.35 (by default)
- Enter the default interface password: 12345
- Choose the language
- If the interface does not have a static IP address, click the “Find on the system” button to find the interface

Once all the parameters have been entered click




in the taskbar.

The PC is connected to the interface.

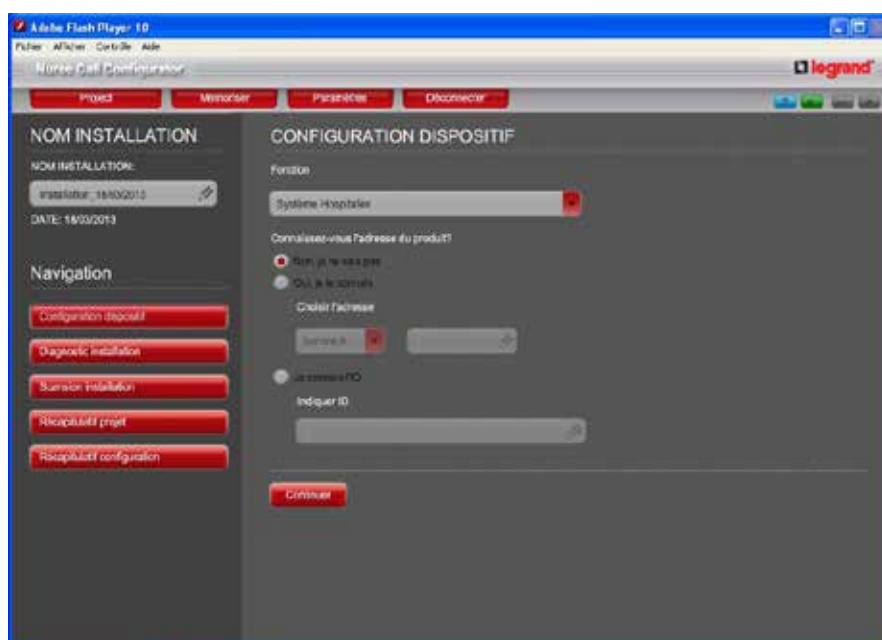


## Device configuration

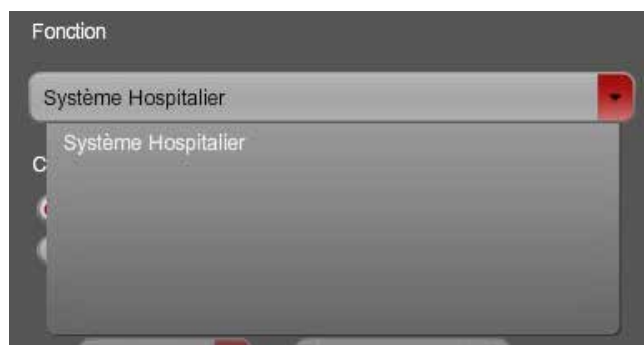


When a device has not been configured, the  icon flashes quickly.

In “Virtual Configurator”, select



From the dropdown “Function” menu, select “Hospital System”.



# Parameter setting (continued)

## VIRTUAL DEVICE CONFIGURATION (CONTINUED)

There are two possible solutions to find the device to be configured:

- Either the ID number on the back of the product
- Or pressing the green “Presence” button on the front of the device to be configured (recommended)



Je connais l'ID

Indiquer ID

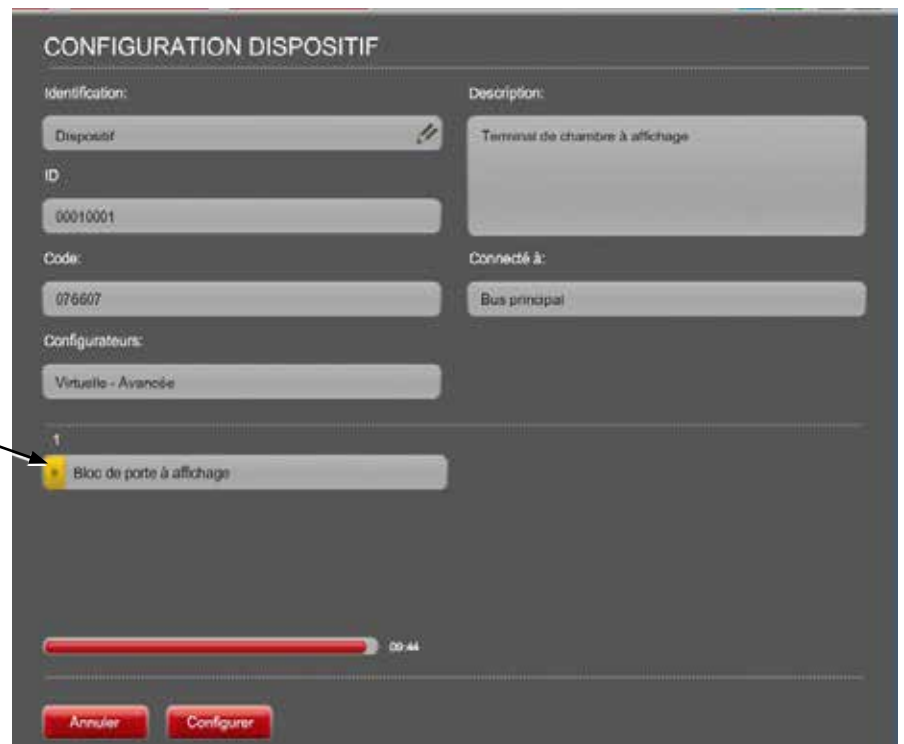
000342F

Connaissez-vous l'adresse du produit?

Non, je ne sais pas

Once the device has been found, the next page is displayed:

- Identification = device name given in the software
- ID = ID of the device being configured
- Code = device catalogue number
- Configurateurs: configuration type (physical/virtual)
- Device type with indication of configuration status (yellow = not configured, green = configuration OK, red = configuration not OK)



**CONFIGURATION DISPOSITIF**

Identification: Dispositif

ID: 00010001

Code: 076607

Configurateurs: Virtuelle - Avancée

Description: Terminal de chambre à affichage

Connecté à: Bus principal

1 Bloc de porte à affichage

00:44

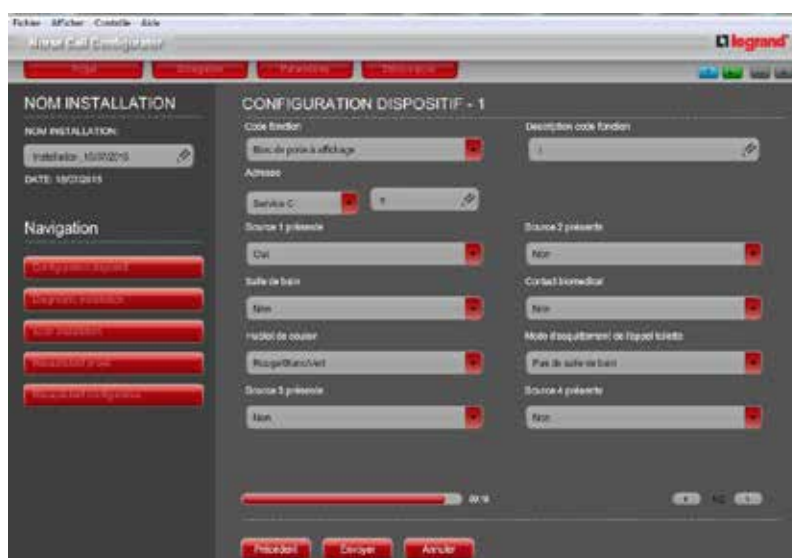
Annuler Configurer

To access device configuration, click the button opposite



Door unit Cat. Nos. 0 766 06/07:

- **Address** = device address. No. of department the room is in and 0: address of the room which will be displayed according to the main control unit parameters.
  - **Source 1 (bed 1) present:** Yes/No
  - **Source 2 (bed 2) present:** Yes/No
  - **Bathroom:** Yes/No. Presence of a bathroom pull cord in the room.
  - **Biomedical contact:** Yes/No. Presence of a biomedical contact in the room.
  - **Corridor overdoor light unit:** choice of colours in the corridor.
  - **Function code description:** used to identify the room (blank field).
  - **Source 3 (bed 3) present:** Yes/No
  - **Source 4 (bed 4) present:** Yes/No
- Sources 3 and 4 should only be used with bed extension 0 782 19



- **Bathroom call hang-up mode:** if a pull cord is present, the call can be hung up via a PB in the bathroom or on the door unit

Once you have filled in all the fields, go to the next page



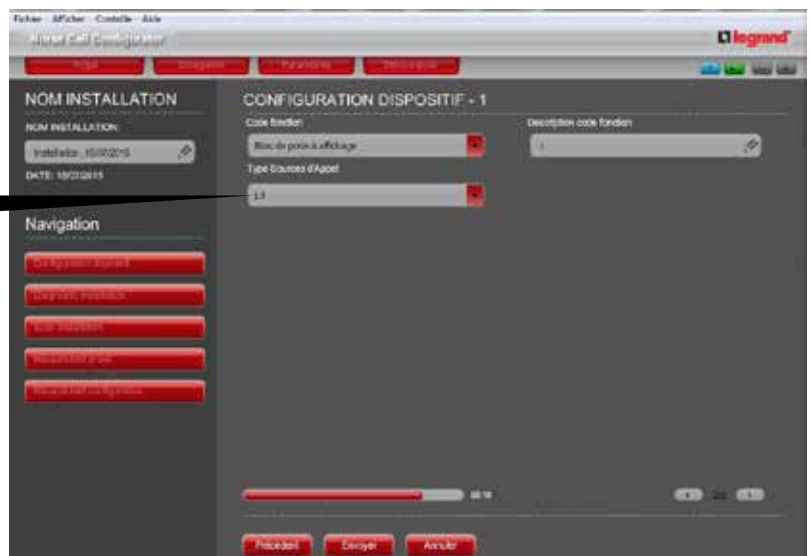
# Parameter setting (continued)

## VIRTUAL DEVICE CONFIGURATION (CONTINUED)

Door unit Cat. Nos. 0 766 06/07 (continued):





- **Undefined call source:** Surveillance of a door or specific room.
- **Bed:** Room with or without bathroom.
- **Bathroom:** Independent bathroom or shower.
- **Bed extension:** Bed extension for bed 3 and 4 with Cat. No. 0 782 19.
- **Bathroom extension:** Do not use.



Parameter setting method:

 = Back to previous menu

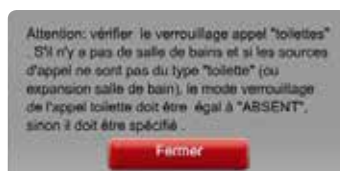
 = Sends the settings entered to the software for verification

 = Factory reset for the device being configured

Click   
The software analyses the settings



If the settings are OK, the device shows as green.



If the settings are not OK, a window opens with an error message

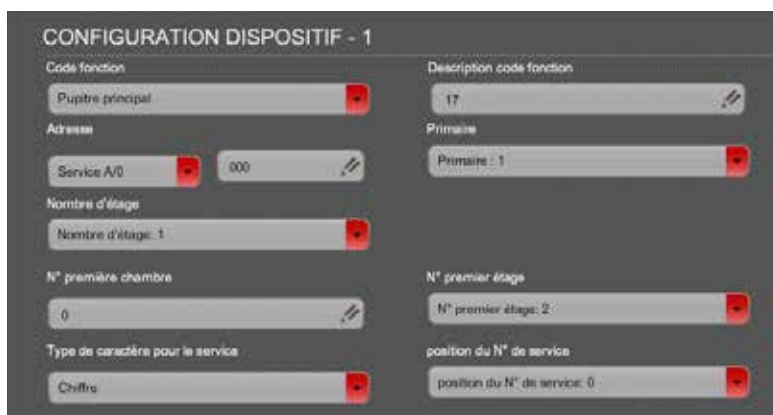
 Click  to finalise configuration and send the settings to the devices. Once the settings have been received, all the door unit indicators flash.

**Note:** In standalone mode, once the settings have been configured, the device triggers a call and buzzes

### The various settings

#### Main control unit Cat. No. 0 766 11


- **Address** = device address. A: = Choice of department (area) No.  
Main control unit address = 000.
- **Number of floors:** number of floors covered by the same department.
- **No. of first room** = offset (difference between the device address and room no. displayed) from the room no. No. which will be displayed for the room with the SCS address = 1.  
The other room numbers will follow on.
- **No. of first floor** = offset from the first floor number. No. which will be displayed for the first floor in the department.
- **Character type for the department:**  
Letter/Digit = department number display mode.
- **Department no. position:**  
it should be possible to shift the number 1, 2 or 3 positions from the left (its initial position).
- **Function code description:** used to identify the room (blank field).



# Parameter setting (continued)

## VIRTUAL DEVICE CONFIGURATION (CONTINUED)

### Examples of numbering for nurses' control unit Cat. No. 0 766 11

 The SCS address range is from no. 1 to no. 169.

1. One floor per department (a department is only on one floor):

Department 0 on the ground floor: Room nos. 0020 to 0189	
Setting	Value
Address	A/000
Number of floors	1
First room no.	19
First floor no.	0
<b>Character type for the department</b>	<b>Digit:</b>
<b>Department no. position</b>	<b>0</b>

Department 1 on the 1st floor: Room nos. 1001 to 1170	
Setting	Value
Address	B/000
Number of floors	1
First room no.	0
First floor no.	0
<b>Character type for the department</b>	<b>Digit:</b>
<b>Department no. position</b>	<b>0</b>

2. Several departments on the same floor:

Department 0 on the 2nd floor: Room nos. 2020 to 2098	
Setting	Value
Address	A/000
Number of floors	1
First room no.	19
First floor no.	<b>2</b>
<b>Character type for the department</b>	<b>Digit:</b>
<b>Department no. position</b>	<b>1</b>

Department 1 on the 2nd floor: Room Nos. 2101 to 2199	
Setting	Value
Address	B/000
Number of floors	1
First room no.	00
First floor no.	<b>2</b>
<b>Character type for the department</b>	<b>Digit:</b>
<b>Department no. position</b>	<b>1</b>

3. One department extending over several floors:

Department 2 with 3 levels: Room nos. 2301 to 2399/2400 to 2499/2530 to 2599	
Setting	Value
Address	C/000
Number of floors	1
First room no.	00
First floor no.	<b>3</b>
<b>Character type for the department</b>	<b>Digit:</b>
<b>Department no. position</b>	<b>0</b>

Department 2 with 3 levels: Room nos. 3320 to 3399/4320 to 4399/5320 to 5399	
Setting	Value
Address	C/000
Number of floors	1
First room no.	19
First floor no.	<b>3</b>
<b>Character type for the department</b>	<b>Digit:</b>
<b>Department no. position</b>	<b>1</b>

Anti-wandering system: Cat. No. 0 766 22  
connected on the door unit Cat. No. 0 766 06

- **Address:** device address.  
 No. of department to which the door being monitored belongs and 0: device SCS address (adjacent device: start with 169 and go down).
- **Access number:** number of door displayed
- **Function code description:** used to identify the room (blank field).



The screenshot shows a configuration interface titled "CONFIGURATION DISPOSITIF - 1". It contains the following fields:

- Code fonction:** A dropdown menu with the selected value "Système anti errance".
- Description code fonction:** A text input field containing the value "100".
- Adresse:** A dropdown menu with the selected value "Service 0" and a text input field containing the value "0".
- numéro accès:** A text input field containing the value "numéro accès: 9".

# Parameter setting (continued)

## VIRTUAL DEVICE CONFIGURATION (CONTINUED)

### Corridor display unit:

Cat. Nos. 0 766 04/0 766 05

In independent configuration of the installation (standalone), the device must be connected to the BUS and to power supply terminals 1 and 2.

- **Address:** device address.  
No. of department to which the display unit belongs and 0: device SCS address (adjacent device: start with 169 and go down).
- **Buzzer enabled:** Yes/No. Used to make the display unit buzzer sound when a call is made.
- **Function code description:** used to identify the room (blank field).

The screenshot shows the 'CONFIGURATION DISPOSITIF - 1' interface. It features several input fields: 'Code fonction' with a dropdown menu set to 'Afficheur de couloir'; 'Description code fonction' with a text input field containing '17'; 'Adresse' with a dropdown menu set to 'Service A' and a text input field containing '008'; and 'Buzzer activé' with a dropdown menu set to 'Oui'.

### Secondary control unit: Cat. No. 0 766 09

- **Address:** device address.  
No. of department to which the secondary control unit belongs and 0: device SCS address (adjacent device: start with 169 and go down).
- **Function code description:** used to identify the room (blank field).

The screenshot shows the 'CONFIGURATION DISPOSITIF - 1' interface. It features several input fields: 'Code fonction' with a dropdown menu set to 'Pupitre secondaire'; 'Description code fonction' with a text input field containing '109'; 'Adresse' with a dropdown menu set to 'Service O' and a text input field containing '090'.

### Traceability interface: Cat. No. 0 766 17

In independent configuration of the installation (standalone), the device must be connected to the BUS and to power supply terminals 1 and 2.

- **Address:** device address.  
No. of department to which the traceability interface belongs and 0: device SCS address (adjacent device: start with 169 and go down).
- **Full memory management mode:**  
either overwrite the oldest events/or stop recording.
- **Function code description:** used to identify the room (blank field).



### BUS SCS/SCS interface: Cat. No. 0 766 10 (the device ID is obligatory for parameter setting)

To configure the interface, the device must be connected to the IN BUS and OUT BUS with 2 different BUS/SCS power supplies.



### Gateway mode

#### Repeater mode

- **Address:** device address.  
No. of department to which the gateway belongs and 0: device SCS address (adjacent device: start with 169 and go down).
- **Function code description:** used to identify the room (blank field).



# Parameter setting (continued)

## VIRTUAL DEVICE CONFIGURATION (CONTINUED)

### DECT interface Cat No. 0 766 19

In independent configuration of the installation (standalone), the device must be connected to the BUS and to power supply terminals 1 and 2.

- **Address:** device address.  
No. of department to which the DECT interface belongs and 0: device SCS address (adjacent device: start with 169 and go down).
- **DECT No. xxxxx:** corresponds to the call number in the ESPA 4.4.4. frame linked to a type of event.
- **Function code description:** used to identify the room (blank field).

**CONFIGURATION DISPOSITIF - 1**

Code fonction	Description code fonction
Interface DECT	43
Adresse	
Service B	0
N° DECT pour Urgence (0=non transmis)	1
N° DECT pour Alarme (0=non transmis)	3
N° DECT pour Biomedical (0=non transmis)	0
N° DECT pour anti errance (0=non transmis)	0
N° DECT pour default système (0=non transmis)	0
	0

### Information feedback interface

#### Cat. No. 0 766 78

In independent configuration of the installation (standalone), the device must be connected to the BUS.

- **Address:** device address.  
No. of department to which the information feedback belongs and 0: device SCS address.
- **Relay management mode:** External buzzer (audible feedback)/Generic load (indicator feedback).
- **Simple call management:** Yes/No.
- **Emergency call management:** Yes/No.
- **Alarm call management:** Yes/No.
- **Associated device:** Yes/No.  
No: call feedback from the the whole department in order of importance.  
Yes: call feedback from a single door unit in the department.
- **Associated device address:** address of door unit to be associated.

**CONFIGURATION DISPOSITIF - 1**

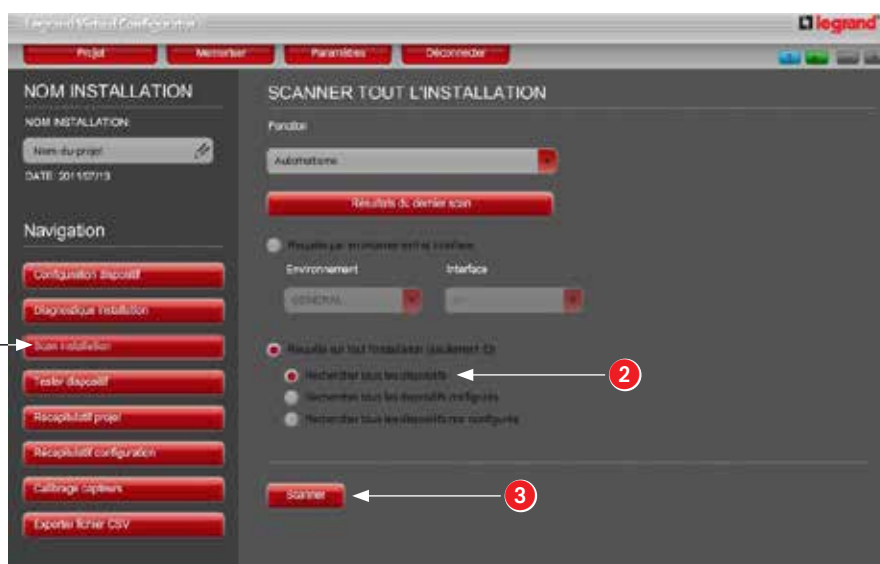
Code fonction	Description code fonction
Actionneur Universel	1
Adresse	
Service A	0
Modalité gestion relais	La gestion d'Appel simple
External Buzzer	Oui
La gestion d'Appel d'urgence	La gestion d'Appel alarme
Oui	Oui
Dispositif associé	Adresse de dispositif associé
Oui	0

## Project backup

During building maintenance, all the device configurations need to be backed up (in case the parameters are reset or the devices are replaced).

• **Procedure:** run a full scan of the installation

- 1 Go to Scan installation
- 2 Select Request for the whole installation/Search all devices
- 3 Launch the scan



A message appears to warn that the nurse call system will not work during parameter setting.



- 4 Check that the total number of scanned devices corresponds to the number of devices installed on the BUS (eg: x/4 hence 4 BUS devices in the installation).




# Parameter setting (continued)



## VIRTUAL DEVICE CONFIGURATION (CONTINUED)

The scan result is displayed.

Each device appears by its catalogue number and ID number.

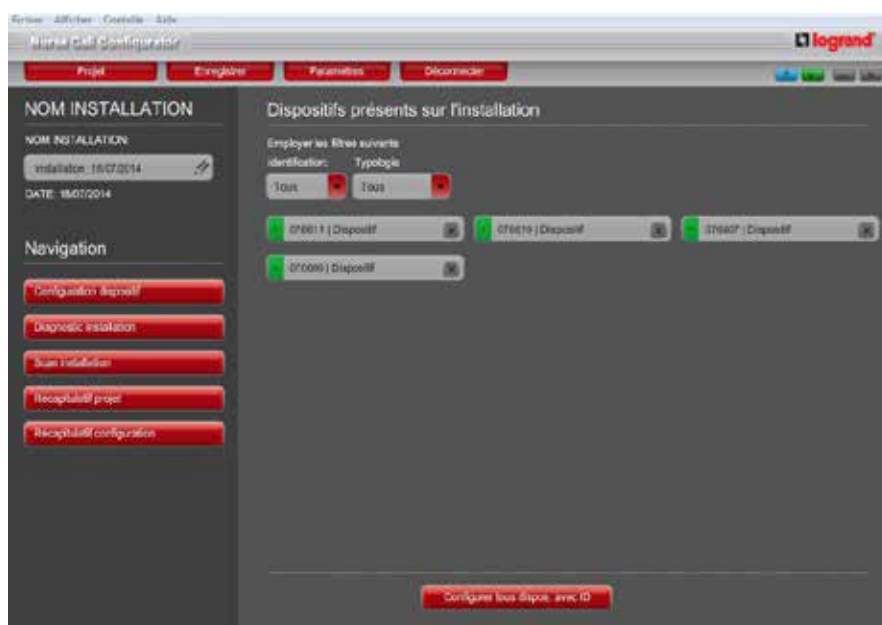
 At this stage, do not save the project. If you save it, the file will be empty.



5 At the end of the scan, copy the results into the project (select  then ).

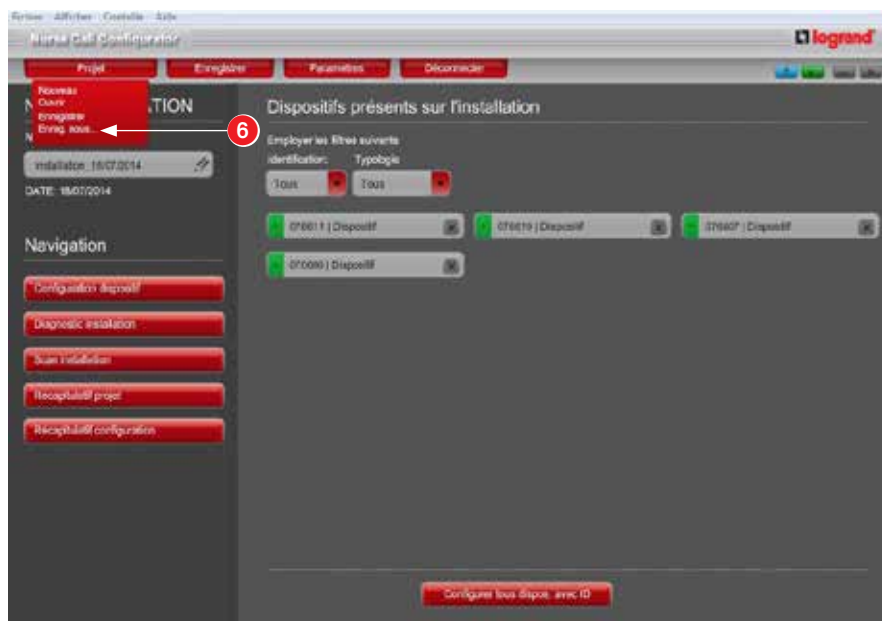


Once copying is complete, the ID numbers no longer appear.  
To make them appear, place the mouse arrow on a device (a label is displayed).



**6** Save by going to Project/Save As...

This save operation allows you to find the device configuration in the installation.



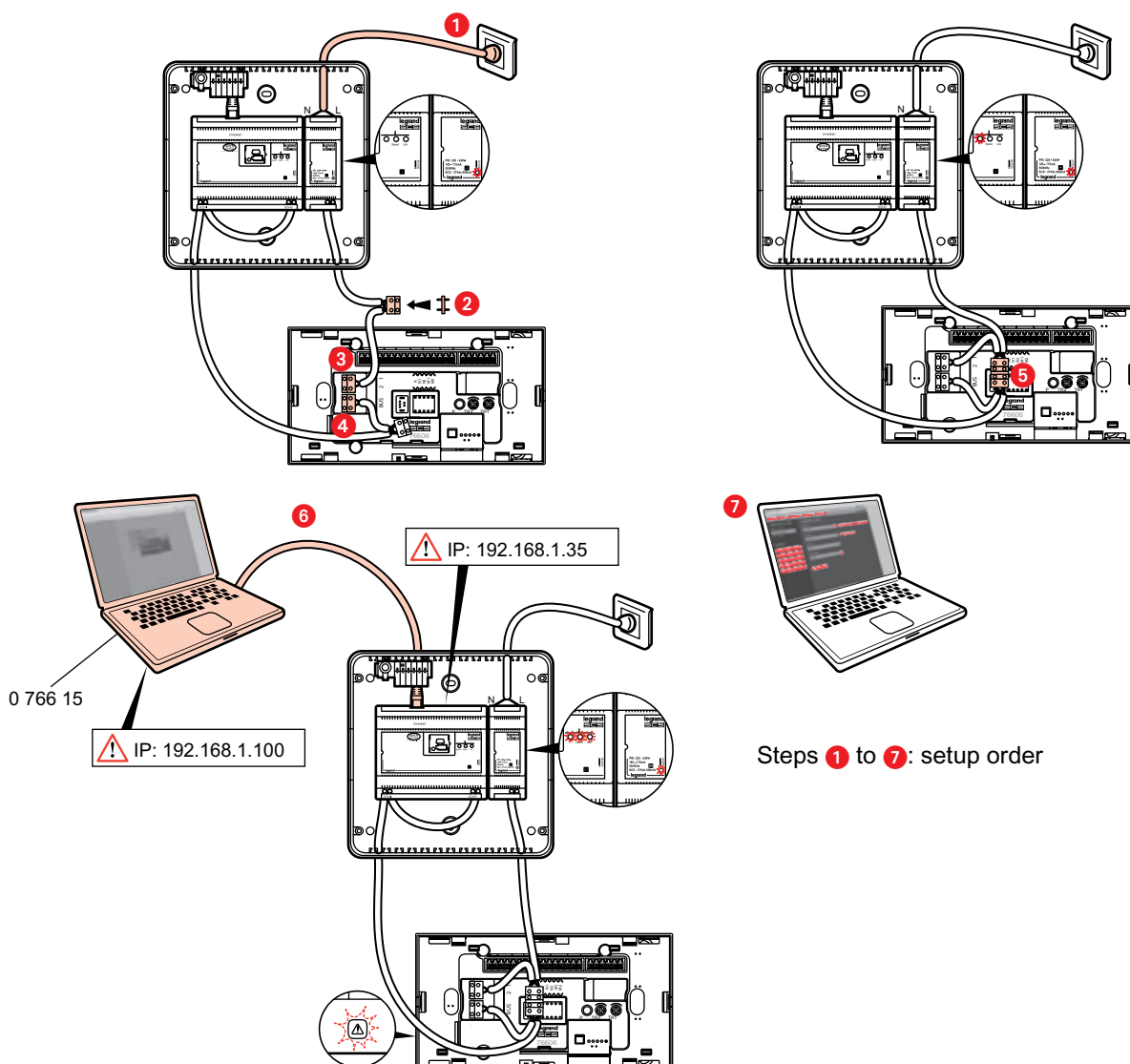
**NB:** Legrand recommends that you restart the program and open the backup file to check that it has saved properly.

# Procedure for replacing a faulty BUS/SCS device in virtual configuration

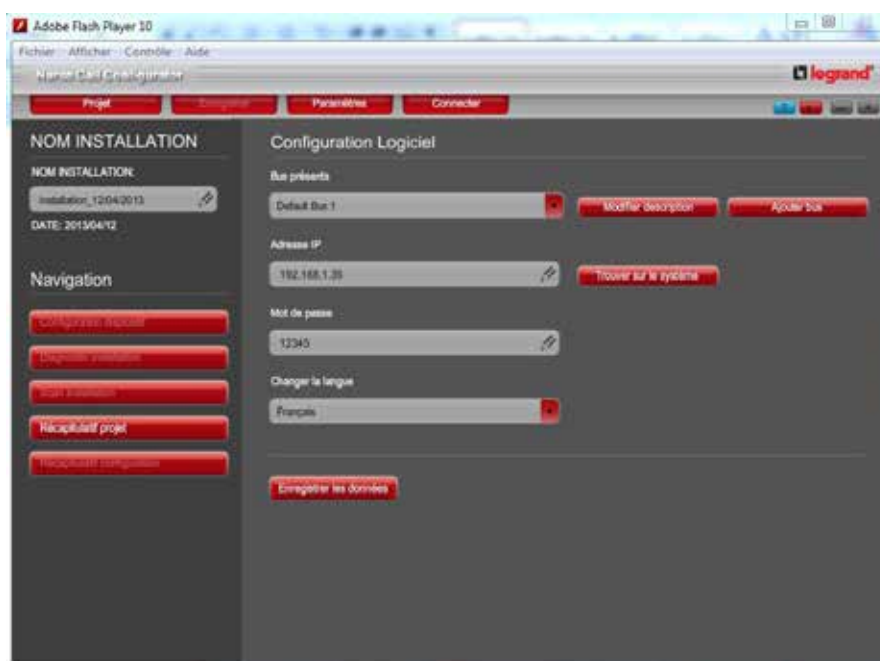
## PROCEDURE INDEPENDENT OF THE INSTALLATION (STANDALONE)

**⚠** NB: A device must be replaced by a device with the same catalogue number.  
The new device must have a production date after 12W26

- ① Record the ID number of the faulty device in the department
- ② Record the ID number of the new device
- ③ Connect the PC to the new device using configuration kit Cat. No. 0 766 16



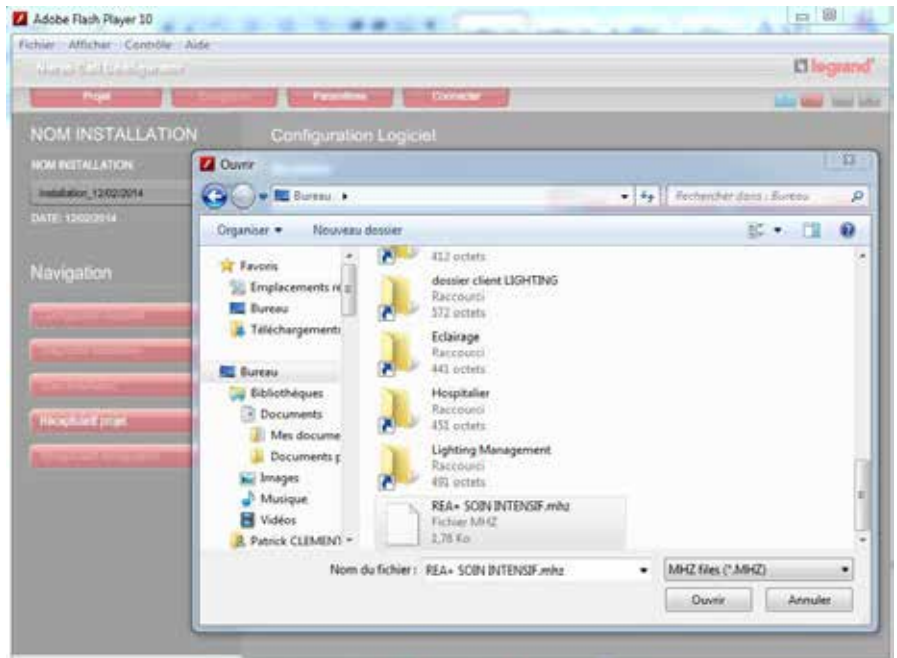
- ④ Launch the Nurse Call Configurator software  
Cat. No. 0 766 15



# Procedure for replacing a faulty BUS/SCS device in virtual configuration (continued)

## PROCEDURE INDEPENDENT OF THE INSTALLATION (STANDALONE) (CONTINUED)

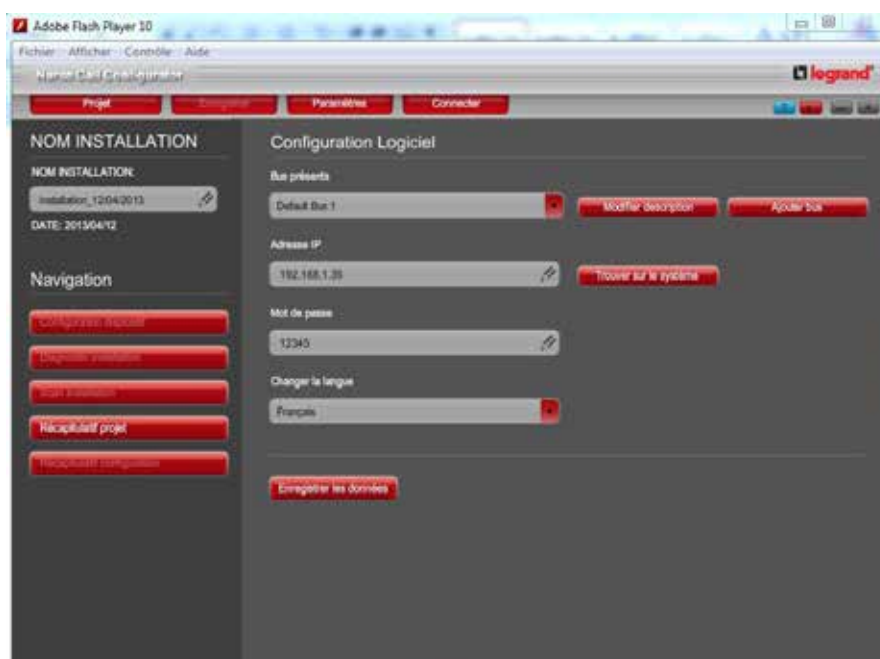
- ⑤ Click on the "Project" tab, then "Open" and open the installation backup file (.mhz file)



- ⑥ The file opens on the page with all the devices in the installation. Click on the "Settings" tab to access the configuration page for connection to the kit



- ⑦ Enter the configuration kit IP address (192.168.1.35 by default and password 12345 by default) in order to connect the software to the system. Click on "Save data" to save changes then click on "Project summary"



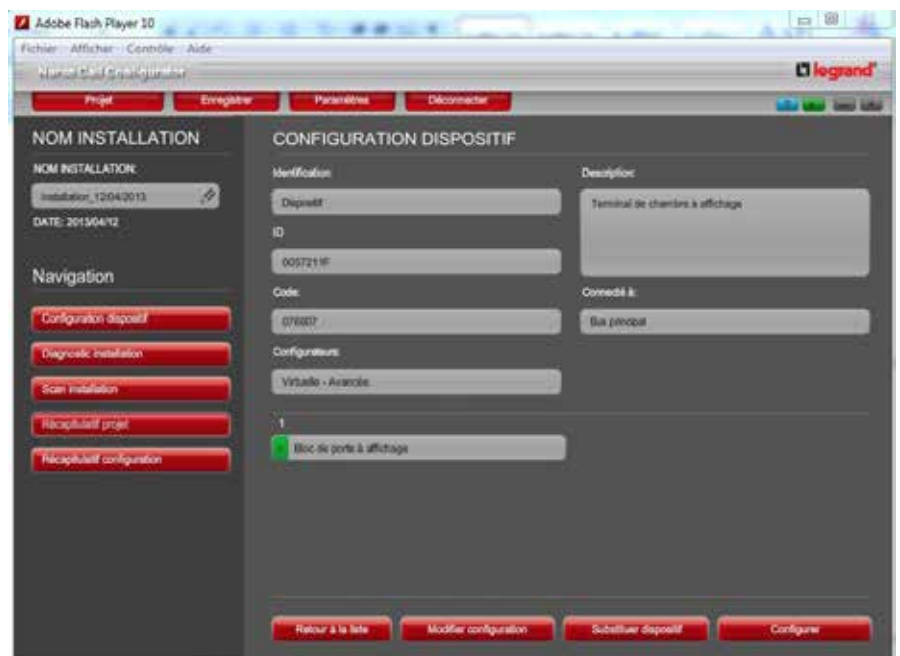
- ⑧ Select the faulty device using its ID number (to display the ID numbers, hover the mouse cursor over each device)



# Procedure for replacing a faulty BUS/SCS device in virtual configuration (continued)

## PROCEDURE INDEPENDENT OF THE INSTALLATION (STANDALONE) (CONTINUED)

⑨ Click "Substitute device"



⑩ Click "Continue"



- ⑪ Enter the new device ID number, then save



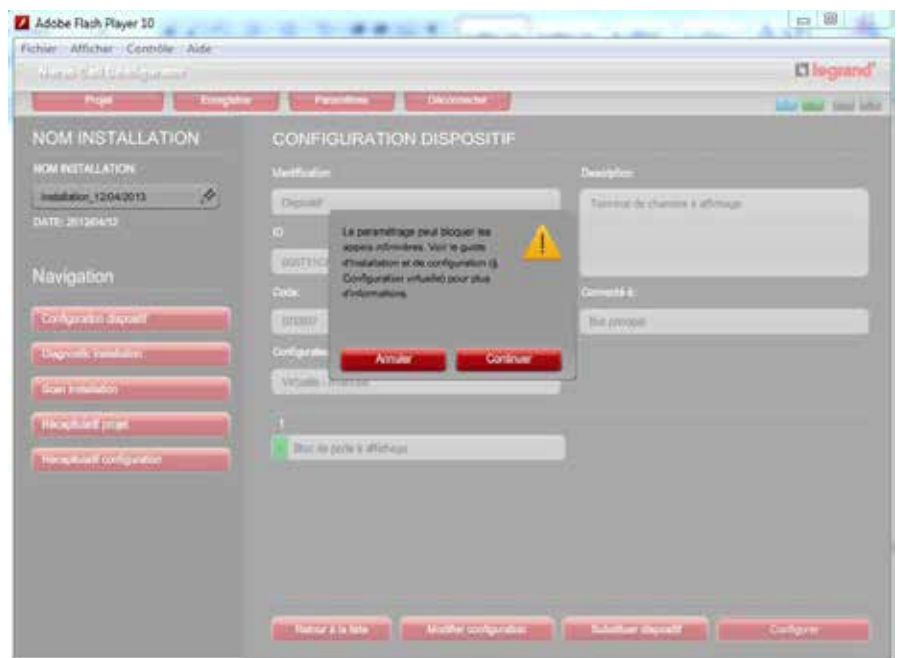
Check that the ID number has been updated, then click "Configure".



# Procedure for replacing a faulty BUS/SCS device in virtual configuration (continued)

## PROCEDURE INDEPENDENT OF THE INSTALLATION (STANDALONE) (CONTINUED)

A dialogue box opens. Click "Continue" then "Close"




- ⑫ Click "Project" then "Save as" to save the file (.mhz file)



- ⑬ Send the device programmed for its installation on site then install it instead of the faulty one
- ⑭ Check the installation operation

# Commissioning

## POWERING-UP

 Do not fully clip on the units before commissioning is complete.

### Recommendations (see p. 4)

- 1 Only connect one door unit and disconnect the indicator and bus power supplies from the other rooms (door unit).
- 2 Set the circuit breaker for the bus and indicator power supplies to ON.
- 3 Check that the green power indicator is on.
- 4 Configure the door unit as physical configuration (using configurators) or virtual configuration (software programming).
- 5 Test local operation of a room (hand-held remote control unit, call pull cord, corridor overdoor light unit and door unit).
- 6 Issue a room recognition confirmation from the nurses' control unit.

## SETTING UP A DEPARTMENT

### Change the language on the nurses' control unit



- Enter the configuration menu by pressing both scroll buttons at the same time.
- Use the arrows to select the **Install/Configuration** menu, then confirm using the green button.
- Select the **Language** tab and confirm, then use the arrows to select the chosen language and confirm with the green button.

### Exit the menu and return to the main menu



- Select the **Back** tab, then confirm with the green button.

## Area (department) recognition



- Select **Install/Configuration** in the main menu using the arrows, then confirm with the green button.
- Now select the **Area Recognition** menu. Confirm with the green button.
- To start the recognition procedure, select **Start procedure**, then confirm with the green button.
- The progress bar shows the status of the procedure.
- Once the procedure has finished, check that all installed devices are present. To do so, select the panel with the arrows and confirm using the green button.
- The unit can display addresses found for each type of device: select the type (RT, CD, WS, etc) with the arrows and confirm using the green button.
- To return to the previous menu select **Back**, then confirm with the green button.

**7** If the room is detected, reconnect and test the other rooms one at a time (see step 4).

**8** Once all the rooms are connected, issue a department recognition confirmation from the main control unit. Check that all rooms are present.

**NS** = Nurses' control unit Cat. No. 0 766 11

**RT** = Room unit Cat. Nos. 0 766 06/07

**CD** = Corridor display unit Cat. Nos. 0 766 04/05

**WS** = Anti-wandering unit Cat. No. 0 766 06

**TRACE** = Traceability interface Cat. No. 0 766 17

**DECT** = DECT interface Cat No. 0 766 19

**GW** = Gateway Cat. No. 0 766 10

**2NS** = Secondary nurses' control unit Cat. No. 0 766 09

**UA** = Information feedback interface Cat. No. 0 766 08

**9** Check overall operation.

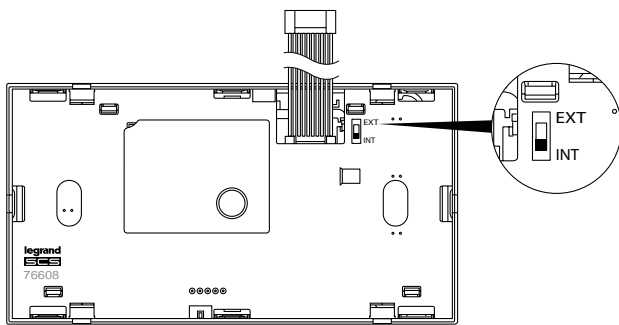
**10** Clip on all the door units.

# Commissioning (continued)

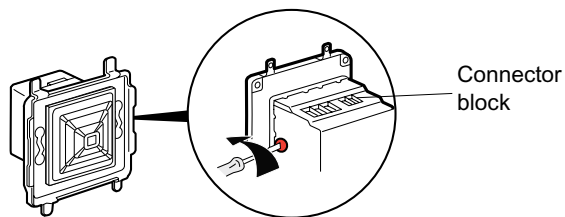
## COMMISSIONING THE INTERPHONE

### If the interphone unit is equipped with an external microphone



- Place the switch on the back of the device in the EXT position



- Clip on the interphone unit
- Set the microphone sensitivity to  $\frac{3}{4}$  of the possible travel






### Check the interphone unit connection


On the interphone unit for the door unit of each room, the main control unit and secondary control units, increase  and decrease  the volume: the volume level should be displayed on the screen unit and should vary as the buttons are pressed.

If nothing is displayed, check the cable connections on the door unit and interphone unit (disconnect/reconnect).

### Check local operation


- From the room interphone units and the main control unit, set the volume to 50%
- Tester 1 makes a call from the test room door unit
- From the main control unit, tester 2 answers the call by pressing the microphone button 
- Inside the room, tester 1 stands where the patient is
- Testers 1 and 2 make contact and talk to one another normally, without raising their voice
- The listening quality must be satisfactory for both of them
- On the main control unit, tester 2 presses the green button  => the call and communication is cut off
- Repeat all the test steps for each room

 The interphone system switches off automatically after 1 minute.

 While a call is in progress, no other calls can be made.

---

### **Check general call from nurses' station control unit to all the room door units**

- On the main control unit interphone unit, press and hold down the general call button  until the indicators on the interphone module light up and speak => the sound should be heard on all the door unit and secondary control unit interphone units

### **Debugging**

#### If the sound level is unsatisfactory

- Check the volume on the main control unit: it should be at 50%
- Increase or decrease the microphone sensitivity (external microphone)

#### If there is no sound

- Check the microphone wiring (external microphone)
- Check the cable wiring
- Check the position of the switch on the back of the module (ext or int)

#### If there is a problem with the general call

- Check the number of indicator power supplies (1 power supply Cat. No. 0 782 90 for 16 directions)

#### If there is a buzzing noise

- Check the BUS power supply catalogue number: it should be Cat. No. 0 634 35 or 346000

# Commissioning (continued)

## SETTING UP A DEPARTMENT (CONTINUED)

---

### Configuring department feedback



- Enter the configuration menu by pressing both scroll buttons at the same time.
- Use the arrows to select the **Install/Configuration** menu, then confirm using the green button.
- Select the **Department groups** menu. Confirm with the green button.
- To start the recognition procedure, select **Start procedure**, then confirm with the green button.
- The progress bar shows the status of the procedure.
- Once the procedure is complete, select the departments to be grouped together (maximum of 3).
- To return to the previous menu select **Back**, then confirm with the green button.
- Carry out the same procedure for all departments that will be authorised to forward calls.

Remember to write down the departments to which calls can be forwarded on the memo sheet by the nurses' control unit (department feedback).

## COMMISSIONING THE DECT INTERFACE CAT. NO. 0 766 19

### Physical configuration (configurators)

#### Configuration of the DECT interface Cat No. 0 766 19:

Allows all messages to be forwarded over DECT  
(call, emergency, alarm and error)

A: indicates the area to which the device belongs (0 to 9)

N1: indicates the device address (0 to 9)

N2: indicates the device address (0 to 9)

M1: type of message sent on the ESPA 4.4.4.

#### Example of interface configuration:

A = 1

N1 = 9

N2 = 9

M1 = 4

Config. M1	Error message	Alarm	Emergency	Call
1	✓	✗	✗	✗
2	✓	✓	✗	✗
3	✓	✓	✓	✗
4	✓	✓	✓	✓



**⚠** NB: Description of ESPA 4.4.4 frame: see "Commissioning the DECT interface Cat. No. 0 766 19/ESPA frame sent by interface 0 766 19" section

**Tip:** Use the OCC program to check that the ESPA 4.4.4 protocol is working correctly.

# Commissioning (continued)

## COMMISSIONING THE DECT INTERFACE CAT. NO. 0 766 19 (continued)

### Virtual configuration (software programming)

**⚠ NB:** - Parameter setting using configurators takes priority over software parameter setting

- The interface must always be configured as software version if the door unit SCS addresses are converted to display the room number corresponding to the one written on the door
- If the device has been configured as software version and then changed to configurator version and you want to go back to the software version then it must be reconfigured (it has lost its configuration)

### DECT interface Cat No. 0 766 19

- **Address:** device address.  
No. of department to which the DECT interface belongs: device SCS address (adjacent device: start with 169 and go down).
- **DECT no. xxxxx:** corresponds to the call number in the ESPA 4.4.4 frame linked to a type of event.

CONFIGURATION DISPOSITIF - 1

Code fonction	Description code fonction
Interface DECT	43
Adresse	
Service B 0	
N° DECT pour Urgence (0=non transmit)	N° DECT pour appel patient (0=non transmit)
2	1
N° DECT pour Biomedical (0=non transmit)	N° DECT pour Alarme (0=non transmit)
0	3
N° DECT pour default système (0=non transmit)	N° DECT pour anti-erance (0=non transmit)
0	0
	N° DECT pour saturation (0=non transmit)
	0

- ⚠ NB:** Interface configured as software version in ESPA 4.4.4. frame, field T03. The codes sent are:
- T01 if the DECT no. has been set at 1
  - T02 if the DECT no. has been set at 2
  - T03 if the DECT no. has been set at 3
  - T08 if the DECT no. has been set at 8

## Communication settings

- Speed: 9600 bauds
- Data bits: 7
- Parity: even
- Stop bit: 1

## COMMISSIONING THE DECT INTERFACE CAT. NO. 0 766 19 (continued)

### Message sent in ESPA 4.4.4.

1 [ENQ]	2 [ENQ]	[ACK]	[SOH] 1 [STX]	1 [US] T03 [RS]	2[US]C002- !!! [RS]	6[US]1[RS]	4[US]3[RS]	3[US]7[ETX]	[ACK]	[EOT] [EOT] [EOT]
			Message type	Call no. = T03	Message to be transmitted: C002- !!!	Message priority = Normal	Call type = Standard	Audible signal type Beep coding = 7	2 responds	End of message

Example of message: **C002- !!!**

To be read: high-level emergency in area C, room no. 002 from the door unit

Area no.	Room no.						Call source	Event
A	001	031	061	091	121	151	Empty (door unit)	Empty (nothing)
B	002	032	062	092	122	152	1 (bed 1)	! (nurse call)
C	003	033	063	093	123	153	2 (bed 2)	!! (emergency call)
D	004	034	064	094	124	154	W (WC/bathroom)	!!! (high-level emergency call)
E	005	035	065	095	125	155	B (biomedical emergency)	
F	006	036	066	096	126	156	P (nurse present)	
G	007	037	067	097	127	157	E (system error)	
H	008	038	068	098	128	158		
I	009	039	069	099	129	159		
J	010	040	070	100	130	160		
	011	041	071	101	131	161		
	012	042	072	102	132	162		
	013	043	073	103	133	163		
	014	044	074	104	134	164		
	015	045	075	105	135	165		
	016	046	076	106	136	166		
	017	047	077	107	137	167		
	018	048	078	108	138	168		
	019	049	079	109	139	169		
	020	050	080	110	140	170		
	021	051	081	111	141	171		
	022	052	082	112	142	172		
	023	053	083	113	143	173		
	024	054	084	114	144	174		
	025	055	085	115	145	175		
	026	056	086	116	146			
	027	057	087	117	147			
	028	058	088	118	148			
	029	059	089	119	149			
	030	060	090	120	150			

# Commissioning (continued)

## COMMISSIONING THE DECT INTERFACE CAT. NO. 0 766 19 (continued)

Event	Message								Description
Nurse present	A	0	0	1	-	P			Nurse present in room A:001
Nurse call	A	0	0	1	-	#		!	Nurse call from source # in room A:001
Emergency call	A	0	0	1	-	#		!	Emergency call from source # in room A:001
Room high-level emergency call (code blue)	A	0	0	1	-			!	High-level emergency call 🚑 from room A:001
Bathroom high-level emergency call (code blue)	A	0	0	1	-	W		!	High-level emergency call 🚑 from bathroom in room A:001
Biomedical alarm	A	0	0	1	-	B		!	Biomedical emergency in room A:001
Escape alarm (start)	A	0	0	9	-	D		!	Escape alarm, door no. 9 in department A
Escape alarm (end)	A	0	0	9	-	D	-		Acknowledgement of escape alarm, door no. 9 in department A
System error (start)	A	0	0	1	-	E	+		System error in room A:001
System error (end)	A	0	0	1	-	E	-		System restored in room A:001
Hand-held control unit disconnected (start)	A	0	0	1	-	H	+		Hand-held remote control unit disconnected in room A:001
Hand-held control unit disconnected (end)	A	0	0	1	-	H	-		Hand-held remote control unit reconnected correctly in room A:001
BUS/SCS overload (start)	<b>A-SCS overload+</b>								BUS/SCS overload (communication) in department A
BUS/SCS overload (end)	<b>A-SCS overload-</b>								End of BUS/SCS overload (communication) in department A

☐ = empty    ☐ = space

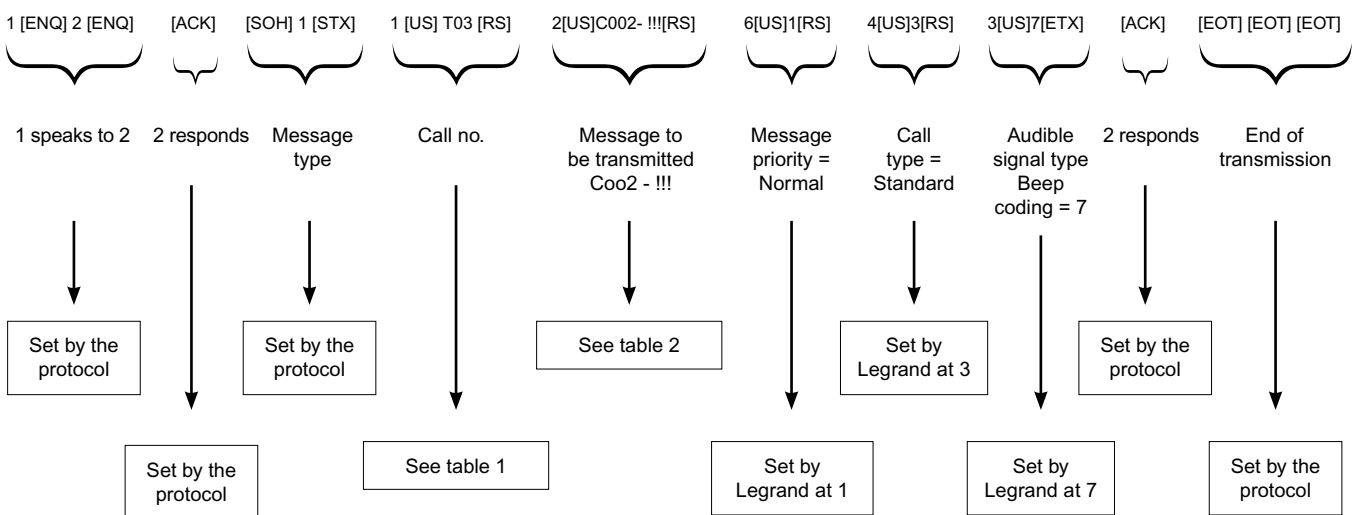
# = Call source	
Door unit	
Bed 1	1
Bed 2	2
Bed 3	3
Bed 4	4
WC/Bathrooms	W

**Note:**

Discuss with the telephone coupler manufacturer. They can guide you based on the information contained in these last 2 pages. These manufacturers usually have a telephone helpline.

## COMMISSIONING THE DECT INTERFACE CAT. NO. 0 766 19 (continued)

### ESPA frame sent by interface Cat. No. 0 766 19



If physical configuration	
Patient call	T01
Emergency	T02
Alarm	T03
System error	T04
PRESENCE	Depending on the previous event Example: Simple call => T01 Presence => T01 Emergency => T02 Presence => T02 Alarm => T03 Presence => T03

If virtual configuration	
Patient call	Txxx
Emergency	Txxx
Alarm	Txxx
Biomedical call	Txxx
Anti-wandering	Txxx
System error	Txxx
Saturation	Txxx
Presence	Depending on the previous event

Xxx= Number recorded in the field corresponds in virtual configurator.

If xxx= 0, message not transmitted to the pabx.

# Commissioning (continued)

## COMMISSIONING THE TRACEABILITY INTERFACE CAT. NO. 0 766 17

---

### Physical configuration (configurator)

#### Configuration of the traceability interface Cat. No. 0 766 17

Used to memorise all events (up to 100,000) that happen in a department.

A: indicates the area to which the device belongs (0 to 9)

N1: indicates the device address (0 to 9)

N2: indicates the device address (0 to 9)

M1: operating mode when the interface memory is full

- 1: older records are overwritten by new ones
- 2: new records are suspended until old records have been saved and deleted from the interface

M2: not in use

### Example of interface configuration:

A = 1

N1 = 9

N2 = 8

M1 = 1

M2: not in use



### Virtual configuration (software programming)

**⚠ NB:** - Parameter setting using configurators takes priority over software parameter setting

- The interface must always be configured as software version if the door unit SCS addresses are converted to display the room number corresponding to the one written on the door
- If the device has been configured as software version and then changed to configurator version and you want to go back to the software version then it must be reconfigured (it has lost its configuration)

#### Traceability interface: Cat. No. 0 766 17

In independent configuration of the installation (standalone), the device must be connected to the BUS and to power supply terminals 1 and 2.

- **Address:** device address.  
No. of department to which the traceability interface belongs: device SCS address (adjacent device: start with 169 and go down).
- **Full memory management mode:** either overwrite the oldest events/or stop recording.
- **Function code description:** used to identify the room (blank field).




- Example for a nursing home with 80 rooms
  - Approximately 35,000 events per month
  - Generates a backup file of approximately 2 MB
  - The traceability interface must be backed up and emptied every 2 months
  - Caution, after 2.5 months, data will be lost
- Example for a hospital ward with 30 rooms
  - Approximately 13,000 events per month
  - Generates a backup file of approximately 800 Kb
  - The traceability interface must be backed up and emptied every 6 months
  - Caution, after 7 months, data will be lost
- **LEGRAND TIP:** Back up and empty the traceability interface once a month

# Commissioning (continued)

## COMMISSIONING THE TRACEABILITY SOFTWARE CAT. NO. 0 766 18

### System requirements:

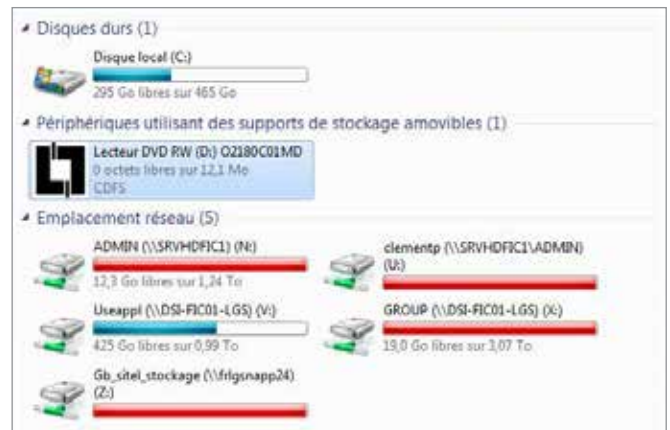
- PC with Pentium processor  $\geq$  1 GHz
- RAM: 512 MB (XP) or 1 GB (Vista/7)
- SVGA graphics card with 800x600 pixels, 256 colours
- 500 MB of hard disk space available
- CD-ROM drive
- Mouse
- Windows XP (32-bit) Service Pack 2, Vista (32 and 64-bit), Windows 7 (32 and 64-bit)
- A spreadsheet compatible with .csv files (eg: Excel, etc)
- Microsoft .NET Framework 4.0

 You must have administrator rights to install the software.

### Installing the software

Insert the CD in the PC drive.  
If AutoRun begins, ignore it, close the window and proceed as follows:

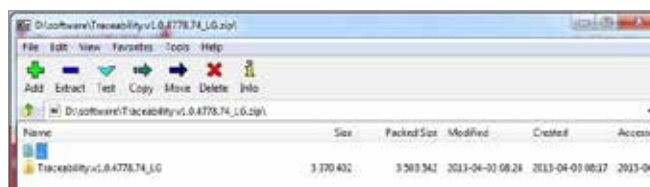
- Open the CD drive contents.



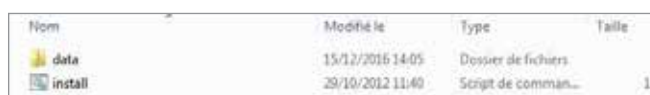
- Open the software directory.

Nom	Modifié le	Type	Taille
Fichiers actuellement sur le disque (8)			
css	10/04/2013 09:55	Dossier de fichiers	
img	10/04/2013 09:55	Dossier de fichiers	
pages	10/04/2013 09:55	Dossier de fichiers	
pdf	10/04/2013 09:55	Dossier de fichiers	
software	10/04/2013 09:55	Dossier de fichiers	
autorun	02/11/2011 10:16	Informations de c...	1,4
favicon	07/11/2006 14:45	icône	3,1
Start	03/04/2013 09:31	Document HTML	3,1

- Copy the "Traceability" file to the hard disk, then unzip it.



- Open the folder and click Install.




- Create a program shortcut on the desktop:
  - Click on "Start" menu → "All programs" → "Legrand" → "Traceability"
  - Right-click on "Traceability", then click "Send to" → "Desktop (create a shortcut)"
  - Double-click on the "Traceability" shortcut to launch the program

- When the program is launched, the screen displays the Settings menu. At this stage the device is not yet connected, so it is only possible to click on "Network settings" and "Exit".



- Connect the traceability interface Cat. No. 0 766 17 to the PC using the USB-mini-USB cable supplied (mini-USB at interface end, USB at PC end).

 If you have any problems, refer to the manual supplied with the software.

# Commissioning (continued)

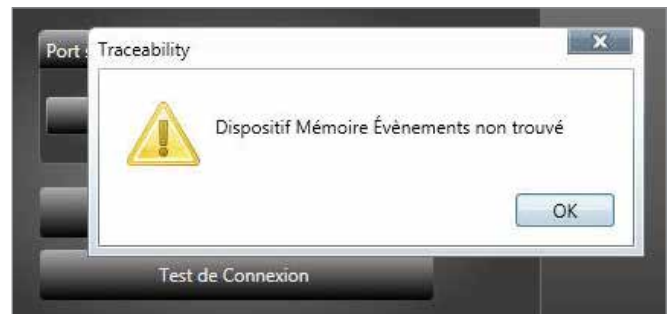
## COMMISSIONING THE TRACEABILITY SOFTWARE CAT. NO. 0 766 18 (CONTINUED)

- Click on "Scan Ports".




- The software automatically assigns a port. If no port is found, an error message is displayed. In this case, connect the cable to a different USB port and try to scan the ports again.

**Info:** The connection test button is used to test the device connectivity on the selected port.



- Once the interface is connected to the software, all the icons will be accessible.



- Go to the Settings icon 

→ Set the date and time.

**!** The date and time must be set exactly the same as those of the building.

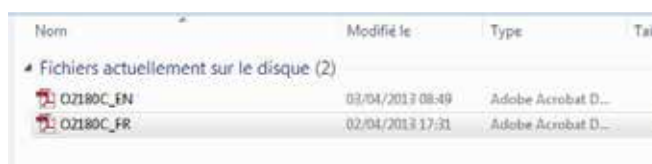


→ Configure the management policy for Full Memory. This parameter has already been set when configuring the traceability interface Cat. No. 0 766 17.

2 options:

- Physical configuration (configurators). In this case, keep the same configuration.
- Virtual configuration (software programming). In this case, ideally keep the configuration exactly the same. Otherwise, the traceability software configuration has priority.

- To find out how the software works, refer to the manual on the CD:  
D:(O2180C01MD)\pdf\utente\O2180C\_FR



**!** **NB:** To configure the RSS feed reader on a remote computer, use the address found in the bottom right of the window (this address appears once the feed is enabled) by replacing "localhost" with the IP address of the computer connected to traceability interface Cat. No. 0 766 17.



RSS feed address

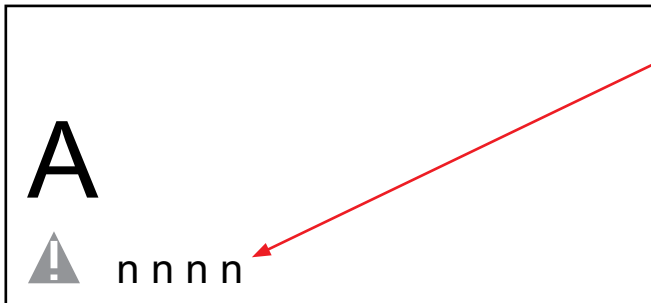
**!** If you have any problems, refer to the manual on the software CD.

# Maintenance codes (visible on nurses' control unit) and software version



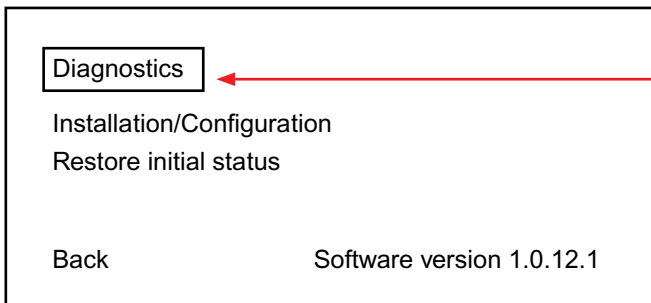
**Software version and mechanical version:**  
see last page of the guide.


## NURSES' CONTROL UNIT DIAGNOSTICS



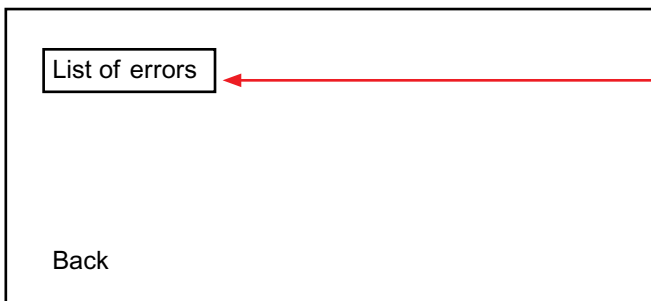
This symbol represents an anomaly within the department. "nnnn" is the number of the room with a fault.


Press both buttons simultaneously to enter the nurses' control unit menu



Confirm by pressing 

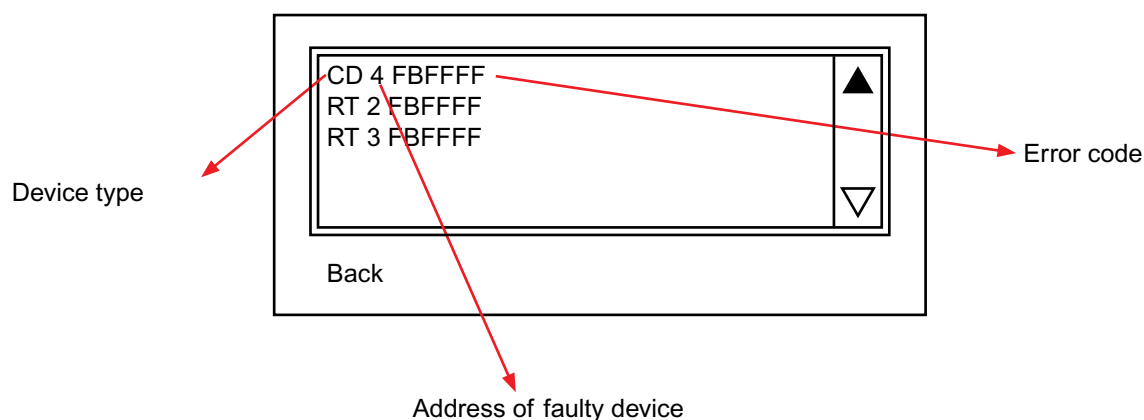
It will only be possible to view the details of errors after the area has been recognised.



Confirm by pressing 

## Error message on corridor display unit

### List of faulty devices visible on nurses' control unit



**NS** = Nurses' control unit Cat. No. 0 766 11

**RT** = Room unit Cat. Nos. 0 766 06/07

**CD** = Corridor display unit Cat. Nos. 0 766 04/05

**WS** = Anti-wandering unit Cat. No. 0 766 06

**TRACE** = Traceability interface Cat. No. 0 766 17

**DECT** = DECT interface Cat No. 0 766 19

**GW** = Gateway Cat. No. 0 766 10

**2NS** = Secondary nurses' control unit Cat. No. 0 766 09

### Examples of error messages on corridor display unit

When "E" is displayed on the corridor display unit, consult the nurses' control unit to find out which device is faulty.

	Error in room no. 125
	Nurse present in room no. 125 + system error
	Call from bed 1 in room no. 125 + system error
	Secure wandering alarm on door no. 1 + system error

# Maintenance codes (visible on nurses' control unit)



Error code  
Cat. No. 0 766 11



Faulty nurses' control unit Cat.  
No. 0 766 11

## NURSES' CONTROL UNIT ERROR CODE

<b>N</b>	<b>S</b>	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>	<b>#</b>	<b>#</b>	<b>#</b>	<b>#</b>	<b>#</b>	<b>#</b>
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

	If FF or F6: OK Other: faulty device. Call Legrand customer service.
F	Not in use
F	Not in use

F	OK
D,C,9,8,5,4,1,0	Indicator power supply error
B,A,9,8,3,2,1,0	BUS/SCS power supply error
7,6,5,4,3,2,1,0	Screen error
E,C,A,8,6,4,2,0	Memory error

F	OK
E,C,A,8,6,4,2,0	Interphone module error
D,B,9,7,5,3,1	Invalid code



Error code  
Cat. No. 0 766 11



Faulty secondary control unit  
Cat. No. 0 766 09

## SECONDARY CONTROL UNIT ERROR CODE

2	N	S	n	n	n	n	#	#				#	#
---	---	---	---	---	---	---	---	---	--	--	--	---	---

If FF or F6: OK  
Other: faulty device.  
Call Legrand customer service.

F Not in use

F Not in use

F	OK
D,C,9,8,5,4,1,0	Power supply error indicator
B,A,9,8,3,2,1,0	Power supply error BUS/SCS
7,6,5,4,3,2,1,0	Screen error
E,C,A,8,6,4,2,0	Memory error

F	OK
E,C,A,8,6,4,2,0	Interphone module error
D,B,9,7,5,3,1	Invalid code

# Maintenance codes (visible on the nurses' control unit) (continued)



Error code  
Cat. No. 0 766 11



Faulty door unit  
Cat. No. 0 766 07

or



Faulty door unit  
Cat. No. 0 766 06

## DOOR UNIT ERROR CODE

R	E	n	n	n	n	#	#	#	#	#	#
---	---	---	---	---	---	---	---	---	---	---	---

If FF or F6: OK  
Other: faulty device.  
Call Legrand customer service.

E,C,A,8,6,4,2,0	H/h r.c. unit LED error bed 1
D,C,9,8,5,4,1,0	H/h r.c. unit LED error bed 2
B,A,9,8,3,2,1,0	Bathroom pull cord LED error
7,6,5,4,3,2,1,0	Bed 1 h/h r.c. unit disconnected
F	OK

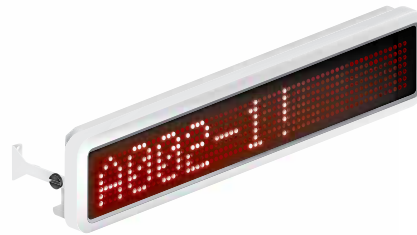
E,C,A,8,6,4,2,0	Bed 2 h/h r.c. unit disconnected
D,B,7,5,3,1	Code not valid
F	OK

E,C,A,8,6,4,2,0	Memory error
D,C,9,8,5,4,1,0	Indicator power supply error
B,A,9,8,3,2,1,0	BUS/SCS error
7,6,5,4,3,2,1,0	Screen error (0 766 07)
F	OK

E,C,A,8,6,4,2,0	Interphone module error
D,C,9,8,5,4,1,0	Red corridor lamp error
B,A,9,8,3,2,1,0	Green corridor lamp error
7,6,5,4,3,2,1,0	White corridor lamp error
F	OK



Error code  
Cat. No. 0 766 11



Faulty corridor display unit  
Cat No. 0 819 04 or 0 801 05

### CORRIDOR DISPLAY UNIT ERROR CODE

C	D	n	n	n	n	#	#	#	#	#	#
---	---	---	---	---	---	---	---	---	---	---	---

If FF or F6: OK  
Other: faulty device.  
Call Legrand customer service.

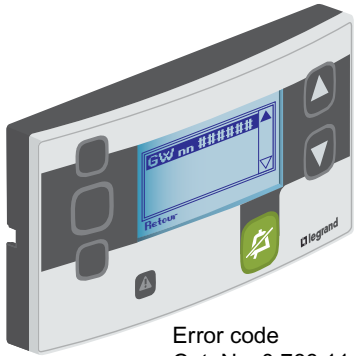
F | Not in use

F | Not in use

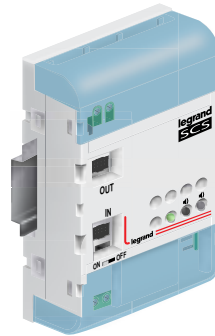
F	OK
D,C,9,8,5,4,1,0	Power supply error
B,A,9,8,3,2,1,0	BUS/SCS error
7,6,5,4,3,2,1,0	Display unit disconnected
E,C,A,8,6,4,2,0	Memory error

F | Not in use

# Maintenance codes (visible on the nurses' control unit) (continued)



Error code  
Cat. No. 0 766 11



Faulty BUS/SCS extension  
Cat. No. 0 770 10

## BUS/SCS EXTENSION ERROR CODE

<b>G</b>	<b>W</b>	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>	<b>#</b>	<b>#</b>	<b>#</b>	<b>#</b>	<b>#</b>	<b>#</b>
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

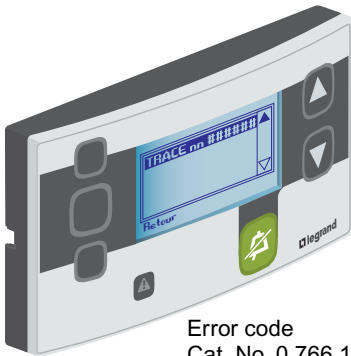
If FF or F6: OK  
Other: faulty device.  
Call Legrand customer service.

**F** | Not in use

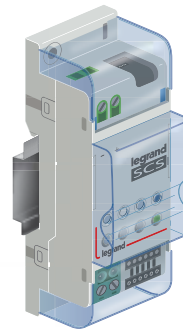
**F** | Not in use

<b>F</b>	OK
<b>D,C,9,8</b>	Indicator power supply error
<b>B,A,9,8</b>	BUS/SCS error
<b>6,5,4,3,2,1,0</b>	Invalid code
<b>E,C,A,8</b>	Memory error

**F** | Not in use

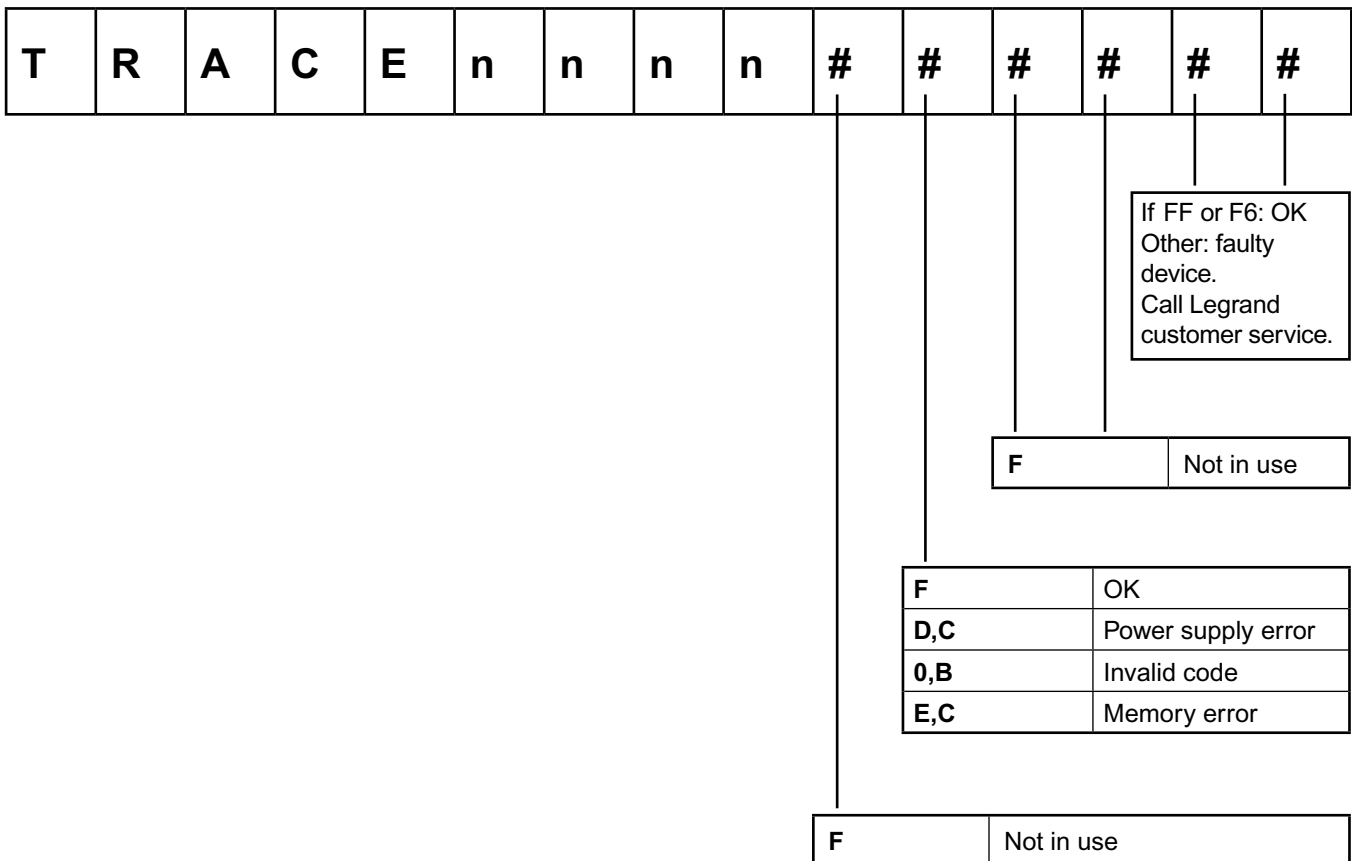


Error code  
Cat. No. 0 766 11

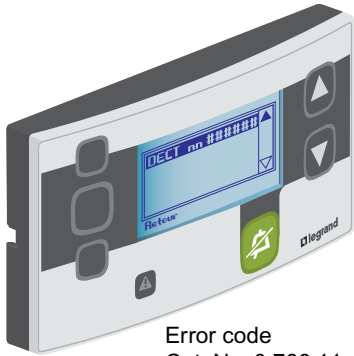


Faulty traceability interface  
Cat. No. 0 766 17

### TRACEABILITY INTERFACE ERROR CODE



# Maintenance codes (visible on the nurses' control unit) (continued)



Error code  
Cat. No. 0 766 11



Faulty DECT interface  
Cat. No. 0 766 19

## DECT INTERFACE ERROR CODE

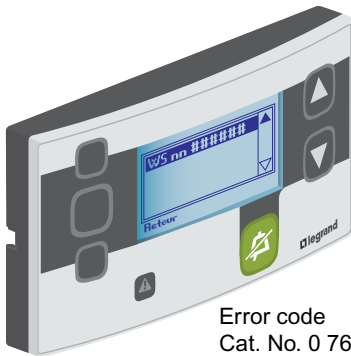
D	E	C	T		n	n	n	n	#	#	#	#	#	#
---	---	---	---	--	---	---	---	---	---	---	---	---	---	---

If FF or F6: OK  
Other: faulty device.  
Call Legrand customer service.

F Not in use

F	OK
D,C,9,8,5,4,1,0	Power supply error
B,A,9,8,3,2,1,0	BUS/SCS error
7,6,5,4,3,2,1,0	RS232 cable disconnected (no longer linked to the PABX)
E,C,A,8,6,4,2,0	Memory error

F Not in use



Error code  
Cat. No. 0 766 11



Faulty door controller  
Cat. No. 0 766 22

+



Faulty door unit  
Cat. No. 0 766 06

## DOOR CONTROLLER ERROR CODE

W	S	n	n	n	n	#	#	#	#	#	#
---	---	---	---	---	---	---	---	---	---	---	---

If FF or F6: OK  
Other: faulty device.  
Call Legrand customer service.

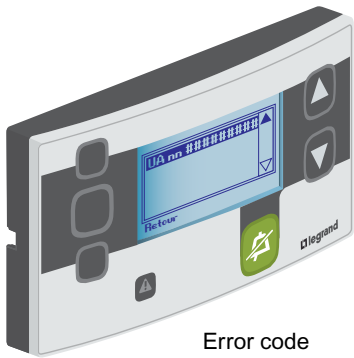
D	Alarm contact error
F	OK

F	OK
---	----

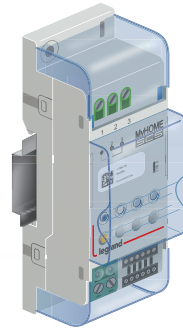
E,C,A,8,6,4,2,0	Memory error
D,C,9,8,5,4,1,0	Indicator power supply error
B,A,9,8,3,2,1,0	BUS/SCS error
7,6,5,4,3,2,1,0	Screen error (0 766 07)
F	OK

D,C,9,8,5,4,1,0	Red corridor lamp error
F	OK

# Maintenance codes (visible on the nurses' control unit) (continued)



Error code  
Cat. No. 0 766 11



Faulty information feedback interface  
Cat. No. 0 766 78

## ERROR CODE FOR INFORMATION FEEDBACK INTERFACE

U	A	n	n	n	n	#	#	#	#	#	#	#	#	#
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

If FF or F6: OK  
Other: faulty device.  
Call Legrand customer service.

F	Not in use
---	------------

F	OK
D,C	Power supply error
0,B	Invalid code
E,C	Memory error

F	Not in use
---	------------

## Product developments

CAT. NOS.	DESCRIPTION	VERSION	DEVELOPMENT	APPLICATION DATE
0 766 11/09 0 766 06/07 0 766 08 0 766 10 0 766 04/05	Nurses' control unit Door unit Interphone module BUS/SCS extension Corridor display unit	1.0.12 01/01/2011 01/02/2010	Creation Compatible with virtual configuration Update for 0 782 19 (bed extension)	11W45 12W26 13W09

0 766 04/05	Corridor display unit	01/02/2010	Change of display unit internal power supply	12W40
0 766 19	DECT interface	1.0.12	Creation	11W45
		01/01/2011	Compatible with virtual configuration	12W26
		01/02/2010	Update for 0 782 19 (bed extension)	13W09
		01/02/2016	Updating of technical messages	14W07
0 766 17	Traceability interface	01/01/2014	Creation	12W26
		01/02/2010	Update for 0 782 19 (bed extension)	13W30
0 766 18	Traceability software	1.0.4778.74	Creation	13W30
0 782 19	Bed extension	01/02/2010	Creation	13W08
0 782 40	1-button hand-held control unit	1	Creation	11W41
0 782 42	3-button hand-held control unit	1	Creation	11W41
		2	Addition of mechanical stops to control buttons	13W36
0 782 44	6-button hand-held control unit	1	Creation	11W41
		2	Addition of mechanical stops to control buttons	13W47
0 782 41/45/46/47	Magnetic socket	1	Creation	11W41
0 782 48	Bathroom pull cord	1	Creation	11W45
			Enhanced production control	13W49
0 782 49/51	Non-standard call button	1	Creation	11W45
0 766 16	Configuration kit	1	Creation	12W26
			Change in cabinet	13W26
0 766 15	Virtual configuration software	1	Creation	12W26
		2.2	Change to bed extension (0 782 19)	13W09
		3.0	Change to information feedback interface (0 766 78)	16W01
0 766 70	3-colour indicator	1	Creation	11W45
0 766 06	Door unit	05 1210 00	Remote acknowledgement option	15W15
0 766 07	Door unit	05 1210 00	Remote acknowledgement option	15W22
0 766 11	Nurses' control unit	01 1221 00	Change to department forwarding	15W13

See label on back of the device to find out which version it is.

Example: **05 1210 00**:

<b>05</b>	<b>1210 00</b>
⎵	⎵
Mechanical version	Software version

# Troubleshooting

ERROR TYPE	DIAGNOSTICS
Door unit Cat. No 0 766 06 or 0 766 07 flashes, displaying the software version number.	Add the configurator to the door unit in position M2 which must be 1 or 2. See device physical configuration table in the <i>Parameter setting</i> section (door units 0 766 06/07)
A transient error on the door unit (between 1 and 30 s): ⚠	Check if the hand-held remote control unit common (call) is connected to the correct terminal
"Burned-out" door unit (smell of singed electronic component)	Check the wiring on terminal 19: the problem is either a short-circuit between the common and terminal 19, or excessive voltage on terminal 19
Door overhead light unit not working	Check the indicator power supply and its polarity
Interphone module not working	Disconnect and reconnect the cables at each end
Remote acknowledgement not working	Check the position of both microswitches on the back of the door unit
"Ø" is displayed on the main control unit	BUS congestion: too many messages circulating on the BUS/SCS. Check whether the department wiring complies with the installation principle or whether the installation includes a faulty device
Call or presence which cannot be acknowledged	Check the microswitch positions. They must be in the ON-ON position if there is no remote acknowledgement button. For other scenarios, see the data sheet for door units Cat. Nos. 0 766 06/07
Chaser effect on all the overhead light units	<ul style="list-style-type: none"> <li>• Not all the hand-held remote control units have yet been connected</li> <li>• The BUS power supply is no longer present or is faulty</li> </ul>
Chaser effect on one overhead light unit	<ul style="list-style-type: none"> <li>• Check that the hand-held remote control units, pull cords and monitor lights are present. If not, add a 100 kΩ/0.25 W resistor</li> <li>• Check that the contacts on the hand-held remote control units, pull cords and handicap contactors (if present in the installation) are normally closed</li> </ul>





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