

# LE10 Radio Receiver



With its multi-purpose operating modes, the LE10 Radio Receiver can be used in combination with wired or wireless NurseCall systems. It is designed to receive radio signals from different TeleAlarm radio transmitters at the frequency of 434.01 MHz. Upon receiving radio signals from either programmed or not programmed wireless transmitters, the LE10 Radio Receiver reacts by activating its two green and red LED indicators and by switching the relay outputs of its two relays.

## Functions

The LE10 Radio Receiver can be set to one out of nine different operating modes in which the device behaves accordingly to different transmitter reception.

### Mode 1: Normal

20 wireless transmitters can be programmed. Calls are indicated by LED 2 and Relay 1. A battery-low signal is indicated by LED 2 and Relay 2.

### Mode 2: LED 2 deactivated at battery-low indication

Same functions as in mode 1, except the battery-low signal which is indicated only by Relay 2.

### Mode 3: Dementia

S37L and S37E wireless transmitters are detected. Relay 1 can be used to lock a monitored door. Relay 2 can be used to interrupt a monitoring loop.

### Mode 4: Dementia with Accompany

The LE10 Radio Receiver can be connected to a wired NurseCall system, in which the Accompany function can be implemented. Here the LE10 Radio Receiver will wait 10 seconds after receiving a signal from an S37L transmitter. If it detects an S37E transmitter in this lapse of time, then no alarm is generated. If not, then Relay 1 is activated for 2 seconds.

### Mode 5: Remote control

20 wireless transmitters can be programmed. Per sequence, only the same transmitter can switch on and off Relay 1.

- **Large number of transmitters can be assigned**
- **Status indication with 2 LED indicators and 2 relays**
- **Easy programming with one button**
- **Multiple connecting possibilities**
- **Nine different operating modes**

### Mode 6: Open receiver

No wireless transmitter needs to be programmed. Any transmitter within reception range of the LE10 Radio Receiver will activate the device.

### Mode 7: Open receiver with reduced range

Same functions as in mode 6, with reduced range. This mode improves reception of transmitters located closer to the LE10 Radio Receiver.

### Mode 8: Extended N46 transmitter programming (only with SW V1.10)

Additional N46 transmitters can be programmed. Behavior is similar to normal mode 1, with certain differences according to the transmitter that is activated.

### Mode 9: Dual channel receiver (only with SW V1.10)

Only S37 transmitters can be programmed. Calls are indicated by Relay 1 or Relay 2, according to the slot where the S37 wireless transmitter is programmed. A battery low signal is indicated by LED 2.

## Certifications and approvals

**EMC Directive: 2004/108/EC**

**Low Voltage Directive: 2006/95/EC**

**R&TTE: 1999/5/EC**

**EN 60950-1: 2011**

**EN 55022: 2006, A1: 2007**

**EN 300220-2 (V2.3.1)**

**EN 50130-4: 1995, A1: 1998, A2: 2003**

**EN 301489-1 (V1.8.1)**

**EN 301489-3 (V1.4.1)**

## Parts included

Quantity	Component
1	LE10 Radio Receiver
1	User manual DE, EN, FR
2	Screws
2	Screw anchors

## Installation/configuration notes

The following wireless transmitters are compatible with the LE10 Radio Receiver:

- S37 Transmitter
- S37L Transmitter with Locating function
- S37E Transmitter with Accompany function
- S35 Pendant Transmitter
- ManDown Sensor
- RAC Wireless Contact
- Wireless Smoke Detector
- N46 Wall Transmitter (Mode 8)

## Technical specifications

Dimensions (H x W x D)	133 x 82 x 26 mm
Weight	110 g
Housing	ABS
Color	Top: white, bottom: charcoal
Frequency	434.01 MHz
Protection class	IP 21
External power supply	8-30 VDC or power supply unit
Current consumption	< 25 mA
Outputs	2 relays, with max 28 V DC or AC, 250 mA maximum Expected lifetime: 500'000 cycles - max load 0,1A/30VDC 1'000'000 cycles - max load 5mA/30VDC
Indication	2 LEDs, one green, one red
Operating temperature range	0°C to 45 °C

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