

# B81 Acknowledgement device



The B81 transmitter is dedicated to authorized staff only, allowing them to acknowledge an alarm by pressing the green button, sending a short-distance radio signal to a transmitter within the 5cm signal reception range of the B81.

The B81 can also be used for sending an emergency call when a caregiver requires assistance.

The B81 is waterproof and lightweight. It may be worn comfortably as a pendant on a retractable badge holder, on the wrist or clipped on.

## Functions

A call is cleared by pressing the green button on the B81 Transmitter within a 5cm reception range of a triggered transmitter. The B81's LED confirms successful acknowledgement of the transmitter's cleared call with a white flash. The care staff are then informed by their Nurse Call system that the alarm has been cleared.

A B81 set off in the immediate vicinity of a transmitter always triggers an acknowledgement transmission from this transmitter to the Nurse Call installation.

The B81 Wristband Transmitter offers IP67 waterproof protection and has a built-in automatic battery monitoring with low battery-alarm. To ensure correct functioning, it sends an automatic daily radio message to the receiver through radio link monitoring. The B81 can be set to automatic radio link monitoring according to the VDE 0834 protocols. Parameters such as automatic radio link monitoring and the use of the green button in addition to triggering an emergency call can be programmed with the PR80 programmer and the associated NC-CM program.

- Attractive, modern design
- Worn on the wrist or as a pendant
- Easy to use
- IP67 waterproof protection
- Battery life up to 2 years
- 15,000 acknowledgement transmissions
- Battery-level monitoring
- Automatic daily radio message
- Bidirectional radio
- LED shows alarm triggered and low battery status
- LED shows Optical alarm-cleared acknowledgement
- No repeat mode possible
- Wireless programming and firmware update
- Automatic radio link monitoring 'VDE 0834' (set to 'off' by default)

## Certifications and Approvals

RED 2014/53/EU  
 EMC 2014/30/EU  
 LVD 2014/35/EU  
 RoHS 2011/65/EU  
 WEEE 2012/19/EU  
 EN 62368-1 (2014 + AC :2015)  
 EN 62479 (2010)  
 EN 50130-4 (2011-06 + A1 :2014)  
 EN 300 220-2 V3.1.1 (2017-02)  
 EN 301 489-1 V2.2.2 (Final draft: 2019)  
 EN 301 489-3 V2.1.1 (2019)  
 EN 50581 (2012-09)  
 VDE 0834-1 (2016-06)  
 VDE 0834-2 (2017)

## B81 technical specifications

Dimensions (H × D)	11 x 41 mm
Weight	15 g
Frequency	868.8MHz bidirectional
Protection class	IP 67 (EN 60529)
Power supply	Replaceable lithium battery CR2430
Consumption	Transmission: max. 25mA Reception: max. 15mA Idle mode: max. 2.5µA
Receiver category	Complies with Cat 1.5 as specified in EN 300220-1 V3.1.1
Battery life	Up to 15,000 acknowledgments
Automatic battery test	Daily check and at every alarm test
Battery alarm	At approx. 10% remaining
Operating temperature	0°C to 50°C
Storage temperature	-20°C to 80°C
Modulation	FSK
Antenna	Integrated dipole
Radiated power	Typ. 630µW
Environmental class	II
Maximum range in free field	Up to 250m

## Scope of delivery

Quantity	Component
1	Acknowledgement device B81 including battery
1	Necklace
1	Cover ring Elastomer
1	Leaflet with instructions

Option	
1	Clip assembly
1	Wristband

## Ordering information

Part	Designation	Reference
B81- ACK-NC	B81 acknowledgement device	T.240.001.487
3V battery set	3V Lithium Battery CR2430 (10 Pcs)	4.998.153.678
Cover ring	Cover ring Elastomer FuFi7	4.998.149.355
Necklaces set	Necklace-Set (10 pcs)	4.998.151.848
Clips set	Clip-Set (10 pcs)	4.998.151.849
Bracelet black	Bracelet for S87, black (10 pcs)	F.01U.066.761
Bracelet dark grey	Bracelet for S87, dark grey (min. 10 pcs)	F.01U.206.027
Bracelet light grey	Bracelet for S87, light grey (min. 10 pcs )	F.01U.206.026
Opening tool set	Opening Tool-Set Radio Button Tx (5 pcs)	4.998.150.229. C23

TeleAlarm SA  
 Rue du Pont 23  
 2300 La Chaux-de-Fonds  
 Switzerland  
[www.telealarm.com](http://www.telealarm.com)

TeleAlarm Europe GmbH  
 Hertzstraße 2  
 04329 Leipzig  
 Germany

Contact in UK:  
 Tel.: +44 (0) 333 0124392  
[info-uk@telealarm.com](mailto:info-uk@telealarm.com)

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