



AP80 Access Point





Red LED:

ON when power supply is connected.

Output low voltage: maximum 0.55V

Output high voltage: minimum 3.8 V

Absolute maximum output current: +/- 32 mA

- Blinks ON/OFF 0.5 s during a transmission problem, until the transmission returns to normal.
- Turning to Green LED:

TX Serial output

- Flashes approx. 0.1 s, when sending a "Live message" every 10 s to the serial interface.
- Switches ON for 1s, when sending the radio transmitter information to the serial interface.
- The LED is adjustable between 0 (off) and 8 (max intensity)

6 : ---

+5V

100Ω

100Ω

10pF

RX

- 5 : ---
- 4 : TTL 5V Rx

Connection Pins

- 3 : TTL 5V Tx
- 2 : GND 1 : 8 - 30 VDC

Power Supply

- 8 to 30 VDC
- Typical current < 30 mA
- Peak current: < 50 mA



RX Serial input

- Input low voltage: 0 1.5 V
- Input high voltage: 3.5 5 V
- Input leakage current: +/- 1 µA max
- Absolute maximum input voltage on "RX": 10 V

Idle state of the RX/TX signals

The signal must be "High" to avoid a "ghost" byte interpretation. Example: Receiving an "ACK" (0x06): → The byte is read from the right (MSB) to the left (LSB)



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Working Mode: Open Receiver

No wireless transmitter needs to be programmed. Any NurseCall 868.8MHz transmitter within the reception range of the AP80 will activate the device and will send the radio-data via TTL interface. The TTL interface protocol is described in the document 'AP80 -Protocol description'.

Dimensions of the AP80 and fixing holes

Notice: plastic standoffs must be used when installing the PCBA by its mount holes.



B81 technical specifications

Dimensions (H × W × D)	49 × 49 × 22mm
Weight	16g
Frequency	868.8MHz bidirectional
Indication	1 tricolour LED RGB
Adjustable LED brightness	'O' is LED off, '7' is max. brightness
Operating temperature	0°C to 45°C
Storage temperature	-20°C to 70°C
Maximum connection length between AP80 and customer subsystem	100mm

Disposing of the device

Electrical or electronic devices that are no longer serviceable must be collected separately and sent for environmentally appropriate recycling (in accordance with the European Directive on Waste Electrical and Electronic Equipment).



TeleAlarm SA Rue du Pont 23 2300 La Chaux-de-Fonds Switzerland www.telealarm.com

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TeleAlarm Europe GmbH Hertzstraße 2 04329 Leipzig Germany

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