CONTROLLEDCARE

109 Railside Road, Unit 305, M3A1B2, North York, Canada

Wireless Nurse Call Pendant (Patient / Staff) One-button alarm • Supervision check-in • Low-battery reporting • NFC credential

Wireless Pendant Transmitter
Technical spec sheet

Secure ID + CRC	433 MHz ASK RF	3-5 Year Battery	IP65 Enclosure	NFC Tag	Location Support

Highlights

- **Reliable alarm transmission**
  >= 7 packets per alarm burst (>= 1.2 s). Multiple presses do not cancel.

- **Secure device identity**
  Event/input ID + unique device serial + CRC in each encoded packet.

- **Timing-aware RF**
  Pilot/preamble before each packet burst supports time-to-delivery measurement.

- **Staff-only cancel**
  Hidden cancel with authorized staff tag prevents patient self-cancel.

- **Supervision + low battery**
  Check-in 55 min default (115 min option / disable). Low battery <10% with 120 min alerts (optional).

- **Long-life, field replaceable**
  CR2032 (3 V, 225 mAh). Typical 3+ years; up to 5 years (profile dependent).

Key Specifications

RF band	433 MHz ISM (315/915 MHz optional variants)
Modulation	ASK
Data rate	4 kB/s
TX power	Adjustable; 5 mW default after calibration
Packet	24-bit encoded + Event ID + Serial + CRC
Pilot/preamble	Before each packet burst
Alarm burst	>= 7 packets; >= 1.2 s (minimum)
Presence check-in	55 min default (115 min option / disable)
Low battery	<10% capacity; 120 min alert interval (optional)
Battery	CR2032, 3 V, 225 mAh; user replaceable
Battery life	3+ yrs typical; up to 5 yrs (ref profile)
Ingress	IP65
Weight	28 g (excluding lanyard)
NFC	MIFARE 26-bit compatible tag
Location support	Receiver RSSI + timing can assist position estimation (system-dependent)

Staff pendant details:
Does not require Cancel hidden sensor, optional is On
Alarm button is Grey and LED is blue colour
Check-in 115 min default or disabled.
Low battery <10% with 120 min alerts (optional).

C4 CONTROLLEDCARE

email: sales@controlledcare.com, Tel: 800-792-7137

Wireless Nurse Call Pendant (Patient / Staff) One-button alarm • Supervision check-in • Low-battery reporting • NFC credential

Wireless Pendant Transmitter
Technical spec sheet

Secure ID + CRC	433 MHz ASK RF	3-5 Year Battery	IP65 Enclosure	NFC Tag	Location Support

Battery Replacement
CR2032 (3 V) — field replaceable • Follow steps below

Tip: Use a plastic opening tool when possible to avoid scratching the enclosure. Avoid shorting the coin cell.

1 Unscrew the back cover

- Use a Phillips screwdriver to remove the rear screw.
- Keep the screw in a safe place for reassembly.

2 Open the enclosure

- Gently pry the back cover using a flat screwdriver.
- Preferred: use a plastic opening tool to protect the housing.

3 Locate the battery side

- This view shows the top side of the PCB.
- The CR2032 coin cell is located on the opposite (back) side.

4 Replace the CR2032

- Carefully remove the old CR2032 and insert the new battery with the correct polarity.
- Use quality brands (e.g., Panasonic or Duracell). Avoid no-name batteries.

5 Reassemble and test

- Clip the case back together and reinstall the screw.
- Allow 30–40 seconds for auto-init and network registration, then press the Alarm button and confirm delivery.
- Check-in and battery supervision resume automatically.