



LAN101

The **LAN101 Wireless Nurse Call Neck Pendant** is a lightweight, single-button emergency call device designed for resident and patient mobility within skilled nursing, assisted living, and independent living facilities. Engineered for high reliability and ease of use, the pendant allows users to summon assistance from anywhere within the facility's wireless mesh network or receiver coverage zone.

The unit features a recessed, tactile activation button to minimize accidental false alarms while remaining easy to depress for individuals with limited dexterity or arthritis. It comes equipped with a comfortable, breakaway cloth lanyard designed for safety and long-term wear.

Architects and Engineers Specifications

A. General Wireless Emergency Call Pendant Requirements

1. The contractor shall furnish and install a fully supervised, wireless neck pendant transmitter (SKU: LAN101) where indicated on the project drawings.
2. The wireless pendant shall operate on a supervised radio frequency infrastructure, providing automatic self-testing and low-battery monitoring at intervals not exceeding 60 minutes.

B. Mechanical and Material Specifications

1. The pendant housing shall be constructed of high-impact, flame-retardant, medical-grade ABS plastic treated with an integrated antimicrobial additive.
2. The pendant shall be provided with a soft woven cloth lanyard utilizing an engineered breakaway mechanism that releases when subjected to forces exceeding 4.5 lbs (2.0 kg) of tension.
3. The activation button shall be recessed below the primary housing profile to guard against false operations.

C. Operational Performance

1. Actuating the primary button shall instantly broadcast a unique, digitally encoded RF identity signal to the wireless nurse call head-end equipment, initiating an audible and visual alarm at the respective staff console, dome lights, and assigned mobile devices.
2. The device shall include an integrated status LED that flashes green upon successful signal transmission and flashes red to indicate a low battery state during operation.
3. Power shall be provided by a field-replaceable 3V lithium coin cell battery with a minimum operational lifespan of 12 to 24 months based on standard usage patterns.

Product Specifications

- **Dimensions (H x W x D):** 2.2" x 1.4" x 0.6" (56mm x 36mm x 15mm)
- **Weight:** 1.1 oz (31 grams) with battery installed
- **Enclosure Material:** Medical-grade, flame-retardant ABS (UL 94V-0 compliant)
- **Lanyard Type:** 15" (381mm) Adjustable Woven Cloth with Dual Safety Breakaway Clips
- **Battery Type:** CR2450 3V Lithium Coin Cell (Field-Replaceable)
- **Battery Life:** 1.5 – 2 Years (assuming 5 activations/day and 60-min check-ins)
- **Operating Frequency:** 433.92 MHz / 900 MHz Spread Spectrum (Configured per system architecture)
- **Transmission Range:** 150 – 300 feet (45 – 90 meters) indoor environment (dependent on building construction)
- **Operating Temperature:** 32°F to 122°F (0°C to 50°C)
- **Storage Temperature:** 14°F to 140°F (-10°C to 60°C)
- **Relative Humidity:** 95% non-condensing

Equipment Options

- **LAN101-L:** Standard unit bundled with a 15-inch anti-strangulation breakaway cloth lanyard (Default).
- **LAN101-B:** Optional integrated belt clip attachment plate.
- **LAN101-WP:** Enhanced IP67 waterproof-rated housing configuration for use in shower/bathing environments.
- **Replacement Parts:** * LAN101-CL: Pack of 10 replacement breakaway cloth lanyards.
 - LAN101-BATT: CR2450 replacement lithium coin cell batteries (Pack of 5).

Standard Features

- **Single-Button Activation:** Large, high-contrast red activation center button with distinct tactile feedback.
- **Breakaway Cloth Lanyard:** Soft, non-irritating woven fabric lanyard featuring an integrated safety tension-release clip to prevent strangulation hazards.
- **LED Visual Feedback:** Integrated dual-color (Red/Green) LED indicator confirms successful signal transmission and alerts engineering when battery levels are low.
- **Supervised Wireless Check-In:** Programmed to transmit periodic automated "heartbeat" status signals to the central master station to verify operational integrity, RF link quality, and battery health.
- **Impact-Resistant Enclosure:** Constructed from durable, medical-grade ABS plastic designed to withstand drops on hard facility surfaces.
- **Antimicrobial Coating:** Enclosure surface is treated to inhibit the growth of bacteria and pathogens, supporting facility infection control protocols.

Compliance and Certification

- **FCC Status:** Compliant with FCC Part 15 Class B rules for intentional radiators, ensuring no harmful interference with adjacent critical medical equipment.
- **UL Status:** Listed to UL 1069 (Hospital Signaling and Nurse Call Equipment) or UL 2560 (Emergency Call Systems for Assisted Living and Independent Living Facilities) when integrated with an approved head-end master platform.
- **RoHS Status:** 100% RoHS compliant; manufactured without lead, mercury, cadmium, or other hazardous materials restricting electronic waste.

More Features

- **Accidental Trigger Delay:** Configurable firmware option allows a subtle 0.5-second press-and-hold requirement to filter out momentary bumps or accidental presses.
- **Low Battery Pre-Alert:** Sends a silent, discrete low-battery notification to the facility maintenance dashboard up to 30 days before critical failure, ensuring zero-downtime hot-swaps.
- **Clearing/Reset Protocol:** Configured for magnetic or secure multi-press reset directly at the pendant, or central clearing at the nurse master console depending on facility compliance preferences.