



Architects' and Engineers' Specifications

- The patient communication interface shall be a multi-functional handheld pillow speaker designed for integration with compatible 8-pin nurse call systems, designated as model WNC-8PNS-PS. The device shall provide integration for standard nurse call assistance requests, two-way voice communication, entertainment television volume and channel stepping, and auxiliary over-bed lighting controls.
- The physical housing shall be manufactured from a high-impact, medical-grade ABS plastic designed to absorb drop impacts without internal component failure. The front interface shall utilize a completely sealed, waterproof membrane keypad compliant with infection control policies and capable of regular immersion or topical sanitation using standard hospital-grade disinfectants.
- Audio components shall consist of a high-sensitivity, omni-directional microphone and a water-resistant, frequency-optimized speaker to maximize verbal clarity between the patient bed and master stations. Connection to the room terminal station shall be achieved via an 8-foot or 10-foot oxygen-tent-safe cable assembly terminated with a heavy-duty, molded 8-Pin DIN connector fitted with integrated strain relief.

WNC-8PNS-PS Wireless Pro-Switch

The Wireless Pro-Switch WNC-8PNS-PS Pro-Switch is a premium, multifunction handheld pillow speaker engineered to integrate seamlessly with 8-pin wireless nurse call and emergency response systems. Combining critical patient-to-staff communication, television entertainment control, and localized environmental lighting management into a unified handheld peripheral, it provides patients with immediate, single-point access to essential care functions.

Constructed from robust, healthcare-grade materials, the WNC-8PNS-PS is tailored to withstand the intensive physical impacts and strict chemical sanitization routines typical of demanding medical, post-operative, and long-term care environments.

Specifications

- **Primary Connection Type:** Heavy-Duty 8-Pin DIN
- **Enclosure Material:** High-Impact, Medical-Grade ABS Plastic
- **Keypad Construction:** Fully Sealed Waterproof Membrane
- **Audio Specifications:** Water-resistant speaker / High-sensitivity microphone
- **Available Cable Lengths:** 8 Feet / 10 Feet
- **Cable Safety Profile:** Oxygen-tent safe with molded strain-relief boots
- **Ingress Protection:** Liquid-resistant sealed button array
- **System Compatibility:** Universally compatible with matching 8-pin nurse call standard architectures

System Components

The WNC-8PNS-PS assembly comprises the following hardware elements and structural interfaces:

- **Handheld Control Module:** High-impact contoured ABS structural housing featuring an ergonomic tactile button arrangement.
- **Sealed Keypad Interface:** A fully waterproof, flush-mounted membrane keypad utilizing low-force switches designed for patients with limited manual dexterity.
- **Acoustic Transducers:** Internal high-output, water-resistant dynamic speaker combined with an optimized-sensitivity microphone assembly.
- **System Link Cable:** Flexible multi-conductor, oxygen-tent-safe interconnect cable available in standard lengths.
- **8-Pin Terminal Connector:** Molded, heavy-duty 8-Pin DIN male connector with structural strain-relief housing.

Features

- **Ergonomic Contoured Profile:** Formed to support an easy-grip shape, minimizing accidental slippage and maximizing ease of use for patients suffering from severe arthritis or diminished dexterity.
- **High-Visibility Oversized Buttons:** Prominent, clearly labeled buttons reduce patient confusion and accelerate response time during urgent assistance calls.
- **Infection Control Alignment:** A fully sealed membrane surface blocks the entry of fluids, medication, or cleaning agents, supporting streamlined sanitation protocols.
- **Enhanced Audio Intelligibility:** Acoustic design features suppress background hums and amplify human vocal frequencies, ensuring accurate patient assessment by remote care teams.
- **Oxygen-Tent Safety Classification:** Cable construction parameters comply with specific healthcare environment fire safety and gas containment rules.
- **Molded Connector Architecture:** Reinforced connection point layout limits premature cable fatigue and physical risks associated with hard physical disconnections.

Compliance and Certification

- **FCC Classification:** Complies with Part 15 limits for Class B digital devices regarding electromagnetic interference in commercial healthcare facilities.
- **UL Standards:** Manufactured using UL 94-V0 flame-retardant plastic components; compliant with complementary medical device safety standards for patient peripherals.
- **RoHS Directive:** 100% lead-free construction; fully compliant with current hazardous substance restriction standards for electronic equipment.