Product Specification Sheet

WNC-ZTX2 High-Power Wireless Transmitter

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The WNC-ZTX2 is a high-power wireless transmitter designed to provide reliable signal penetration and extended range in demanding environments such as hospitals, assisted living facilities, and skilled nursing centers. It captures signals from wireless pendant transmitters, pull stations, and other system peripherals, then broadcasts these alerts to staff pagers or secondary integration systems. Its 2-watt output ensures superior signal integrity in facilities where high-density building materials might otherwise impede wireless communication.

Architects' and Engineers' Specifications

The contractor shall provide a 2-Watt wireless paging transmitter (Model WNC-ZTX2 or approved equivalent) to serve as the core transmission gateway for the facility nurse call system. The unit shall support [insert protocol, e.g., POCSAG/FLEX] to ensure compatibility with all assigned staff paging devices. The transmitter shall feature an adjustable power output up to 2 Watts, be housed in a wall-mountable, high-impact enclosure, and provide front-panel LED indicators for power, transmission, and fault status. The system must include a secondary antenna mounting kit if necessary to meet facility coverage requirements and support battery-backed operation for continuous reliability during site power failures.

More Features

- Status LEDs: Front-panel indicators provide real-time diagnostics on transmission activity, system power, and fault conditions.
- Multi-Protocol Support: Engineered to support common paging protocols (such as POCSAG or FLEX), ensuring compatibility with standard alphanumeric pagers.
- Remote Programming: Supports firmware updates and frequency adjustments via a secure PC interface.

Compliance and Certification

- FCC: Certified under FCC Part 15 and/or Part 90 (depending on frequency and usage).
- UL: Evaluated for compliance with UL 1069 or UL 2560 standards for nurse call equipment.
- RoHS: Fully compliant, utilizing lead-free components and manufacturing processes.

Equipment Options

- Antenna Kits: Available with high-gain omnidirectional or directional antennas to optimize signal distribution in specific areas.
- Power Redundancy: Optional battery backup modules to maintain transmission capability during power outages.
- Interface Modules: External serial or IP-based gateway cards to allow direct integration with third-party software or localized paging systems.

Standard & Advanced Features

- High-Power Output: Delivers 2 Watts of RF power, maximizing range and coverage reliability in multi-story or sprawling buildings.
- Wide Compatibility: Designed to interface seamlessly with standard wireless nurse call peripherals, including pendants, pull stations, and bed sensors.
- Reliable Alert Routing: Rapidly encodes and broadcasts alerts to ensure minimal latency between a call trigger and staff notification.
- Durable Enclosure: Housed in a robust, compact enclosure suitable for wall-mounting in secure equipment rooms or utility closets.

Product Specifications

- Transmit Power: 2 Watts (nominal).
- Frequency Range: VHF/UHF bands (typically programmable per regional requirements).
- Operating Voltage: 12VDC/24VDC (external power adapter).
- Connections: BNC antenna connector; RJ45/Serial interface for data input.
- Dimensions: Standard compact industrial form factor (approx. 5" x 4" x 1.5").
- Operating Temperature: 0°C to 50°C.

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Product Specification Sheet

WNC-WS Pendant
Wrist Strap Cut Band

Product Specifications

Specification Parameter	Detail / Technical Value
Model Number	182-48RB
Overall Length	48 Inches (approx. 1219 mm)
Display Technology	High-intensity LED Matrix
Viewing Distance	Rated for clear legibility up to 150 feet
Character Height	2.0 inches to 4.0 inches (dependent on character font/line layout)
Wireless Frequency	Commercial ISM Band (Model variant dependent: 433 MHz / 900 MHz Spread Spectrum)
Input Voltage	120 VAC, 60 Hz standard (or 24 VDC secondary input option)

Compliance and Certification

- FCC Status: Certified under FCC Part 15 Class A for intentional and unintentional radiators, ensuring low-interference operation alongside sensitive medical hardware.
- UL Status: Listed to UL 1069 (Hospital Signaling and Nurse Call Equipment) and/or UL 60950-1 / UL 62368-1 for safety of information and communication technology equipment.
- RoHS Status: Fully compliant with RoHS guidelines, restricting the use of hazardous substances like lead, mercury, and cadmium in all internal circuitry and soldering processes.

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