Product Specification Sheet

WNC-WND

WanderGuard Call Cancel Wand with Lanyard



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The WanderGuard WNC-WND Call Cancel Wand with Lanyard is an essential perimeter monitoring and access point security transmitter designed for wireless nurse call architectures.
Engineered for senior living, memory care, and psychiatric units where resident elopement prevention is critical, the WNC-WND functions as a wireless magnetic contact transmitter.

When positioned at entryways, courtyard doors, or windows, it continuously monitors open/closed status. The specialized “wand” form factor combined with a high-visibility breakaway lanyard allows staff to easily handle the hardware, perform manual status changes, or carry the device during facility retrofits and active testing.

It provides a robust, zero-cabling solution to extend patient wander safety protocols across any facility gateway.

Architects' and Engineers' Specification

- The wander management and elopement prevention infrastructure shall incorporate the WanderGuard Call Cancel Wand with Lanyard (Model: WNC-WND) or an approved technical equivalent. The device shall operate as a fully wireless, supervised perimeter transmitter configured to evaluate the open/closed positioning of facility doors, emergency egress paths, or window systems via a magnetic reed switch contact array.
- The integrated transmission module must utilize 900 MHz spread-spectrum frequency-hopping technology to eliminate communication dead zones across the facility interior. The assembly must feature an independent, automatic background supervision protocol transmitting health status and battery telemetry to the centralized master display panel at fixed intervals not exceeding 60 seconds.
- The casing shall be composed of impact-resistant, commercial-grade ABS plastic featuring internal tamper switches that initiate an immediate system-wide fault warning if the device is disassembled without authorization.
- The unit shall include a secondary breakaway lanyard accessory for manual testing and transport configurations by safety personnel, and must support dual mounting applications via commercial adhesive matrices or direct wall anchor integration.

Specifications

- **Operating Frequency:** 900 MHz Frequency-Hopping Spread Spectrum (FHSS)
- **Power Supply:** Internal 3V Industrial Lithium Cell (Included)
- **Magnetic Contact:** 0.50 inches to 1.00 inch operating tolerance range
- **Enclosure Material:** High-impact, flame-retardant ABS
- **Dimensions (Transmitter):** 3.2" L × 1.4" W × 0.8" H (approximate)
- **Lanyard Style:** Heavy-duty woven nylon with mechanical breakaway clasp
- **Supervisory Interval:** Programmed background heartbeat check
- **Operating Temperature:** 14°F to 122°F (-10°C to 50°C)
- **Storage Humidity:** Maximum 95% Relative Humidity

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Features & Benefits

- **Magnetic Contact Supervision:** Employs a highly accurate internal magnetic reed switch that monitors window and door status, immediately triggering a priority elopement alarm if the magnetic field threshold is broken.
- **900 MHz Spread Spectrum Transmission:** Utilizes frequency-hopping spread spectrum technology to push critical alarm data through dense hospital walls and structural barriers with minimal interference.
- **Integrated Lanyard Assembly:** Shipped with an adjustable, safety-breakaway nylon neck lanyard, enabling versatile transport and manual deployment by supervising security personnel.
- **Heartbeat Monitoring Link:** Automatically transmits periodic supervisory “heartbeat” packets to the central nurse call console to verify continuous network connectivity, link budget health, and current battery capacity.
- **Dual Mounting Provision:** Built-in industrial adhesive backing for swift, non-destructive surface attachment alongside dedicated screw-mount points for high-traffic, secure installations.
- **Tamper-Evident Enclosure:** Triggers an immediate system alert if the main transmitter casing is forcibly opened or unseated from its mounting plane.
- **Localized Reset Capability:** Allows responding staff to temporarily bypass or reset a local alarm sequence at the access point using a recognized magnetic sequence, preventing unnecessary console alarms during authorized resident transport.
- **Low-Profile Styling:** The compact ABS body is stylized to blend seamlessly into standard commercial window sashes and wood-grain frames, maintaining a warm, non-institutional aesthetic for memory care environments.
- **Low-Battery Pre-Alert:** Provides advance notification up to several weeks before battery failure, ensuring maintenance staff can schedule swaps with zero downtime to facility safety grids.

Equipment Options

- **High-Strength Magnet Kit (-HSM):** Heavy-duty external rare-earth magnet assembly designed to widen the operating gap tolerance on loose-fitting or vibrating industrial doors.
- **Antimicrobial Lanyard Upgrade (-AML):** Replacement neck lanyard treated with a premium medical-grade antimicrobial coating to inhibit pathogen growth in sterile environments.
- **Weatherproof Gasket Set (-WP):** Silicone sealing kit to shield the WNC-WND enclosure against moisture, enabling deployment on exterior perimeter fences and courtyard gates.
- **Pre-Linked Replacement Battery Kit:** High-capacity 3V lithium cells packaged with replacement enclosure gaskets to ensure long-term, continuous monitoring integrity.

Compliance and Certification

- **FCC Status:** Fully certified under FCC Part 15 for intentional radiators operating within the commercial ISM band. Its frequency-hopping spread spectrum architecture guarantees minimal interference with adjacent imaging, diagnostics, and physiological wireless infrastructure.
- **UL Status:** Engineered for integration within systems meeting UL 1069 (Hospital Signaling and Nurse Call Equipment) and complies with structural safety criteria for wireless security peripherals.
- **RoHS Status:** Manufactured completely free of restricted hazardous elements, strictly conforming to modern RoHS standards prohibiting the use of lead, mercury, polybrominated biphenyls, and cadmium in commercial medical electronics.

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