Product Specification Sheet
WNC-970B7
Wireless Door/Window Transmitter



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The Wireless Door/Window Transmitter WNC-970B7 serves as a specialized security and monitoring endpoint within wireless nurse call and commercial emergency communication systems. Designed to protect perimeter security, restricted clinical zones, and patient areas, this transmitter detects the unauthorized opening or closing of doors, windows, and cabinets. Upon contact separation, the device broadcasts an instantaneous radio frequency (RF) signal to the central master console, helping facility staff prevent patient elopement, manage wander restriction zones, and secure restricted access spaces.

Specifications

- **Product Name:** Wireless Door/Window Transmitter
- **Model / SKU:** WNC-970B7
- **Sensor Mechanism:** Internal Magnetic Reed Switch with External Magnet
- **Power Source**: Replaceable Long-Life Lithium Battery
- **Supervision Diagnostics:** Periodic check-in telemetry and low-battery signaling
- **Enclosure Material:** High-Impact, Flame-Retardant ABS Thermoplastic
- **Tamper Protection:** Onboard case-open / wall-removal tamper switch
- **Mounting Hardware:** Heavy-duty double-sided tape and hardware screws included
- **Operating Environment:** Indoor use; 32°F to 120°F (0°C to 49°C)

System Components

The WNC-970B7 transmitter functions as an integrated device within a comprehensive facility security network, interacting with the following key components:

- **Magnetic Actuator (Magnet Block):** The paired surface magnet installed on the moving frame of the door or window directly adjacent to the transmitter housing.
- **Wireless Network Receivers:** Strategic RF hubs located throughout the facility that intercept the transmitter's status signals and route them to the head-end system.
- **Central Master Consoles:** Processing hubs (such as PC-Based stations) that log the perimeter breach, display the location, and trigger alarms.
- **Staff Notification Nodes:** System outputs activated by the alert, including wireless pocket pagers, dome lights, mobile device notifications, and audible zone alarms.

Compliance and Certification

- FCC Part 15 Class B Certified: Tested and verified to comply with strict radio frequency emission limits, ensuring the device will not cause or suffer harmful interference when operating alongside critical medical diagnostic hardware.
- ETL / UL Framework Compatibility: Evaluated for structural safety and signaling reliability within standard commercial asset tracking and emergency alert frameworks.
- RoHS Compliant: Manufactured free of restricted materials (such as lead, mercury, and polybrominated biphenyls) to align with environmental safety practices.

Architects' and Engineers' Specifications

The perimeter monitoring endpoint shall be a low-profile, surface-mounted Wireless Door/Window Transmitter, model WNC-970B7. The unit shall incorporate a high-reliability internal reed switch activated by an external surface-mounted permanent magnet assembly.
The transmitter must operate via an onboard battery power source and feature automatic low-battery supervision, transmitting a low-battery warning telemetry signal to the central master station prior to power depletion. The wireless RF transmission architecture must feature high-penetration signaling capable of communicating directly with localized receivers and central consoles. The enclosure shall be constructed of impact-resistant, industrial-grade thermoplastic with integrated tamper protection to trigger an immediate alert if the device housing is forcefully removed or opened.

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Features and Benefits

- Immediate Elopement Prevention: Delivers rapid event transmission to the staff console the moment a door or window is breached, allowing teams to intercept wandering residents instantly.
- Compact, Unobtrusive Footprint: The low-profile casing blends cleanly into commercial door frames and windows without interfering with architectural aesthetics or facility movement.
- Supervised Battery Telemetry: Automatically sends background health pings and low-battery notifications to the central master station, eliminating the need for tedious manual testing cycles.
- Built-In Anti-Tamper Security: Equipped with an internal tamper switch that immediately alerts security personnel if anyone attempts to dismantle or disable the sensor.
- Versatile Mounting Options: Installs easily on standard wooden, vinyl, or aluminum frames using industrial-grade adhesive backing or mounting screws for a permanent fit.

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