Product Specification Sheet
WNC-TS
Wireless Toilet Switch



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The WNC-TS is a durable, water-resistant wireless toilet emergency switch explicitly engineered for high-moisture environments such as patient bathrooms, restrooms, and shower stalls in healthcare facilities, assisted living communities, and senior care centers. Operating as a supervised peripheral within the wireless nurse call network, it provides patients with a highly accessible means to signal for assistance. The device utilizes a highly visible mechanical toggle and pull-cord mechanism, ensuring that emergency events are immediately transmitted to the central master console and regional corridor lights.

Architects' and Engineers' Specifications

The Wireless Emergency Restroom/Toilet Station shall be model WNC-TS as manufactured for integration with the Wireless Nurse Call System. The station housing shall be constructed of impact-resistant, flame-retardant thermoplastic and sealed with moisture-resistant gaskets.

The station shall feature a positive-action mechanical toggle switch that supports activation by hand or via an attached anti-microbial pull-cord. A built-in red assurance LED shall illuminate continuously upon call initiation. The station shall transmit a supervised, unique RF telemetry signal to the central system upon user contact activation, system check-in intervals, and low-battery thresholds.
The unit shall mount to a standard single-gang electrical rough-in box or surface mounting ring.

Specifications

- **RF Operating Frequency:** 900 MHz Spread Spectrum (FHSS)
- **Power Source:** Replaceable 3V Lithium Battery (Type CR2477 or equivalent)
- **Estimated Battery Life:** 3 to 5 years (under nominal daily transmission cycles)
- **Enclosure Material:** Flame-retardant ABS/Polycarbonate blend
- **Physical Dimensions:** 4.5" H x 2.8" W x 1.2" D
- **Mounting Compatibility:** Standard single-gang electrical surface or flush box
- **Operating Temperature Range:** 32°F to 120°F (0°C to 49°C)

Equipment Options

- WNC-TS-PC: Standard package including a heavy-duty, moisture-resistant vinyl pull-cord string and plastic guide cone for universal-reach wall installations.
- WNC-TS-WP: Gasketed, fully waterproofed option configured specifically for mounting directly inside wet environments like open shower bays.
- Replacement Pull Cords: High-visibility red or orange anti-microbial replacement nylon strings and break-away assemblies.

Features

- **Dual Activation Methods:** The emergency call can be triggered by pulling down on the attached vinyl cord or by physically flipping the mechanical toggle switch located on the faceplate.
- **Water-Resistant Construction:** Built with internal rubber sealing and silicone gasketing to safeguard internal RF circuitry against splashing water, heavy steam, and aggressive cleaning sprays.
- **Visual Reassurance LED:** Features an integrated red confidence LED that illuminates immediately upon activation, giving the user confirmation that the signal was transmitted.
- **Local Reset Control:** To clear an active emergency alarm, staff must physically enter the room and return the toggle switch to its upright, baseline position.
- **Fully Supervised Check-ins:** The unit automatically transmits periodic "heartbeat" checks to the main receiver, monitoring battery level and active wireless signal strength.

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More Features

• Anti-Microbial Material: Faceplate plastics and pull-cord textures are molded with anti-microbial properties to suppress bacterial growth and make sanitation easier.
• Proactive Low-Battery Alerts: Sends a distinct maintenance data payload to the master console well before battery failure, ensuring zero downtime.
• Optimized RF Transmission: Features an internal, high-efficiency antenna designed to cut through dense restroom barriers like ceramic tiles, structural concrete, and metal studs.

Equipment Options

• FCC: Certified under FCC Part 15 regulations for low-power, license-exempt intentional radiators to guarantee interference-free operation.
• UL: Evaluated to meet structural and performance criteria corresponding with UL 1069 standards for Hospital Signaling and Nurse Call Equipment when operated within a certified system.
• RoHS: Environmentally compliant with global Restriction of Hazardous Substances directives, ensuring lead-free internal solder junctions and surface plastics.

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