Product Specification Sheet
WNC-545EWP
Wireless Elopement Wrist Pendant



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The WNC-545EWP Wireless Elopement Wrist Pendant is a specialized, patient-worn security device designed for wander management and anti-elopement protocols within senior living communities, memory care facilities, and hospitals. Worn comfortably on the wrist, this transmitter continually pairs with facility wander-monitoring networks and door controllers.

If a monitored resident approaches an exit, or if the integrated panic button is pressed, the device broadcasts an immediate, high-priority alert to the central wireless nurse call master console and regional pager networks to help prevent unauthorized departures.

Specifications

- Form Factor: 2-Gang Faceplate Integration
- Visual Element: High-intensity LED array with translucent white dome lens
- Audible Element: Integrated piezo sounder (~80–85 dB at 10 feet)
- Operating Voltage: 12VDC to 24VDC / AC power input
- Current Draw: Low standby current draw; nominal active draw under 150mA
- Mounting Configuration: Fits standard US 2-gang electrical boxes
- Enclosure Material: Flame-retardant ABS plastic base plate; high-impact polycarbonate lens
- Dimensions: Fits standard US 2-gang electrical boxes
- Communication: Supervised RF receiver paired with central wireless console

Architects' and Engineers' Specifications

- The Wireless Elopement and Wander Management Transmitter shall be model WNC-545EWP as manufactured for integration with the Wireless Nurse Call System. The device shall be designed for wrist-worn applications and feature an integrated mechanical panic button along with automated proximity tracking capabilities.
- The housing shall be completely sealed, waterproof, and molded from flame-retardant, anti-microbial thermoplastic. The pendant shall transmit an instantaneous, supervised RF alert to the central processing matrix upon button activation, proximity threshold breach, tamper violation, or low-battery conditions.
- The device shall support both standard adjustable wristbands and tamper-resistant lockable strap assemblies requiring a dedicated tool to release.

Equipment Options

- WNC-545EWP-SB: Standard configuration including an adjustable, anti-microbial, patient-safe silicone wristband.
- WNC-545EWP-LT: Lockable strap variant utilizing a tamper-resistant mechanism that requires a proprietary magnetic or mechanical key for removal; highly recommended for advanced memory care wards.
- Replacement Bands: Packs of multi-color, easily sanitized replacement wristbands for high-volume facility maintenance protocols.

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Features

- **Proximity Detection:** Transmits a unique radio frequency (RF) signature that automatically triggers door locks or localized audible/visual alarms when brought near restricted exit zones.
- **Integrated Call Button:** Features a tactile, depressed push-button on the face of the pendant, allowing the resident (or an accompanying staff member) to manually signal an emergency call.
- **Waterproof Enclosure:** Fully sealed, IP67-rated waterproof housing allows residents to wear the pendant continuously while showering or washing hands without damage.
- **Anti-Tamper Design:** Monitors band continuity and sends an instant alert to the master station if the strap is cut, forced open, or unhooked without authorization.
- **Continuous Supervision:** Broadcasts automated periodic check-in signals ("heartbeats") to ensure the unit is within operating range and working properly.
- **Anti-Microbial Shell:** Outer casing is embedded with silver-ion anti-microbial additives to limit cross-contamination and bacterial growth.
- **Impact Resistant:** Shrunk-wrap, rugged polycarbonate internal framing survives accidental drops, wall impacts, and daily wear-and-tear.
- **Proactive Battery Management:** Automatically flags a low-battery status on the master console months before depletion, allowing staff to schedule a swap without losing security coverage.

Compliance and Certification

- **FCC:** Certified under FCC Part 15 rules for license-exempt intentional radiators to guarantee zero localized channel interference.
- **UL:** Built and tested to align with UL 2560 standards for Emergency Call Systems in Senior Living and Assisted Living settings, as well as structural aspects of UL 1069.
- **RoHS:** Environmentally compliant, using lead-free internal manufacturing processes, surface plastics, and strap materials.

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