

Accutech 77L017

Accutech LC1400 NEW Waterproof Wander Tag - 77L017



PRODUCT OVERVIEW

The Accutech 77L017 NEW Waterproof Wander Tag serves as a core long-life resident tracking component designed for the ResidentGuard LC1400 and ES Patient Wandering Systems. These small, wristwatch-sized transponders are worn by at-risk residents to prevent unauthorized egress or wandering through monitored perimeter zones. Safely secured via comfortable, adjustable, and waterproof silicone bands, each active tag functions with an integrated concealed status layout that operates without drawing visual curiosity. This hardware-only tag ships with its internal battery deactivated to ensure maximum shelf life prior to localized deployment and can be toggled on or off at any time using a specialized programmer.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

The perimeter protection and patient elopement prevention system shall utilize the active radio frequency identification (RFID) Accutech 77L017 NEW Waterproof Wander Tag assembly. The transponder shall feature a dual-frequency architecture operating with a 418 MHz transmit frequency and an induction-based 127–137 kHz receive frequency network. Upon entering a localized transmit (Tx) activation field generated by a zone door controller, the wearable tag shall instantly transmit its security signal to initiate localized alarm sequences, lock magnetic doors, or trigger nurse call relays.

The tracking tag shall operate utilizing a factory-sealed internal 3.0V lithium battery engineered to deliver greater than 6 months of continual tracking functionality. The enclosure chassis must support multi-mode wireless programming capabilities allowing authorized clinical operators to switch operational power modes or check unit diagnostics. To lower visual curiosity and resident agitation, the complete wearable assembly shall feature a non-institutionalized cosmetic appearance with zero active status LEDs or flashing indicators during normal tracking modes.

SYSTEM COMPONENTS

- Accutech 77L017 Active Transponder Unit: The sealed core waterproof processing and broadcasting tag available in the WW (L) configuration for resident wrist/ankle monitoring.
- Integrated Secure Attachment Ports: Side-slotted channels built directly into the tracking tag housing to accept high-retention security bands.

- Primary Peripheral Enclosures (Sold Separately):
- Low-Stretch Wearable Bands (Part # 100917-5): Specialized, non-elastic replacement grey silicone straps engineered with high-tensile elongation limits to eliminate strap expansion.
- Secure Rivet Coupons: High-retention polymer locking coupons featuring an integrated internal metal post layout optimized for low-profile security.
- System Programming Interfaces (Required for Deployment):
- Smart Tag Activator/Deactivator (STAD): The necessary wireless station used to execute tag activation, battery preservation deactivation, and diagnostic tests.
- Identification Tag Activator/Deactivator (ID-TAD): Direct handheld alternative used to wirelessly turn the tag's battery circuit on or off, read factory warranty dates, and verify active battery metrics.

FEATURES AND BENEFITS

- Dignified Fitness Band Design: Mimics a modern consumer smart band rather than a psychiatric or institutional tracking bracelet, lowering targeted picking behaviors.
- Continuous Waterproof Submersion: Hardened waterproof layout allows residents to bathe, shower, or undergo hydrotherapy seamlessly without needing device removal.
- On-Demand Power Cycling: Shipped completely turned off to preserve internal shelf life; caregivers can power-cycle the tag as needed to eliminate idle battery drain when a resident is discharged.
- Tamper-Resistant Engineering: Utilizes a secure coupon band-and-rivet architecture that withstands high physical pulling forces to prevent unauthorized resident removal.
- Zero Visual Indication: Features an opaque, indicator-free exterior housing during normal runtime to avoid drawing visual attention from memory care residents.
- Anti-Stretch Material Engineering: High-durability composite polymer prevents structural laxity, keeping the tag securely in place over prolonged usage cycles.

PRODUCT SPECIFICATION

Manufacturer	Accutech Healthcare Security Solutions
Product Model Name	Accutech LC1400 NEW Waterproof Wander Tag
Part Number / SKU	77L017
Tag Model Number	WW (L)
Transmit Frequency	418 MHz
Receive Frequency	127 kHz to 137 kHz
Battery Lifespan Rating	Warranted for 6 Months (Engineered for > 6 Months of use)
Internal Power Cell Type	Factory-sealed 3.0V Lithium Battery (Non-replaceable)
Tag Dimensions	2.25" W x 0.625" H x 0.875" D
System Compatibility	Accutech ResidentGuard LC1400 and ES Controller Platforms

COMPLIANCE AND CERTIFICATION

- FCC ID Certification: Verified fully compliant under primary system master registration (FCC Grant ID: JM7-HWHY-662017) for low-power communication devices. Complies with Part 15 of the FCC Rules.
- Industry Canada (IC) Status: Certified compliant with Industry Canada licence-exempt RSS standards under IC ID: 2683A-662017.
- UL Status: Engineered to align with standard regulatory protocols for hospital signaling peripherals and electronic access control setups.
- RoHS Status: Constructed entirely using lead-free, environmentally compliant components and manufacturing processes.