Infant Protection Bracelet

Description

The Elpas Infant Protection Bracelet is a unified active long-range Radio Frequency and Infrared device that provides effective security and abduction deterrence for newborns and infants in high-traffic maternity units and neonatal care departments.

The bracelet is comprised of an Elpas Active RFID Reusable Tag and a disposable baby friendly anklet band made of skin-safe non-latex materials that is attached to the infant at birth and may be retightened if subsequent weight loss occurs.

The tag's RF/IR dual technology transmitter emits low power, UHF (433MHz) beacon type radio frequency (RF) messages plus supplemental infra-red (800nm) messages that can be used to determine the real-time location of the infant to room level and sub-room level precision in open and enclosed indoor spaces without EMF interference to hospital equipment. The tag also transmits device supervision messages for keeping facility personnel informed of deliberate or accidental tampering and/or removal of the infant from the protected area.

Additionally the tag features a magnetic low frequency receiver (125KHz) that adds chokepoint area detection so that whenever a protected infant is physically near a prohibited exit/entrance covered by an Elpas LF Exciter security intervention alerts may be triggered.

The Elpas Infant Protection Bracelet is bath/shower proof, simple to use and easy to clean. Powered by single internal lithium battery, the tag's new low power design ensures more then three years of maintenance-free patient deployments.

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Product Features

Triple RF/IR/LF signaling technologies

Tough, field-proven hospital design

Visual tamper/removal/low battery indication

Baby friendly adjustable anklet bands

Bath/Shower proof (IP-67 water rated)

Simple to use, easy to clean & disinfect

Three years average battery life

CE, FCC, IC approved

Applications & Uses

Verifiable newborn identification

Baby/Infant abduction deterrence

24/7 infant supervision & tracking

Mother/Baby matching

Baby handling and auditing

Exit/Entrance supervision

Elpas Infant Protection Bracelet - Confidential Technical & Product Specifications

Electrical Specifications	
Signaling Technologies	RF (433.92 MHz).... IR (880nm)....LF (125KHz)
RF: (Motion/Stationary)	Supervision messages every 10 seconds/ 60 seconds
IR: (Motion/Stationary)	Supervision messages every 10 seconds/ 60 seconds
RF Upon Entry into LF area	Burst of 3 RF transmissions (each transmission @ 2ms in duration), 0.5 seconds apart
RF under LF	2 seconds; after 10 minutes returns to 10 seconds when in motion or 60 seconds when stationary
LF Timeout	Transmits 3 non-LF messages after not hearing from LF for this amount of time
Time to Idle	10 seconds
Events: Band Closed (B2 up) Band Opened/Tamper (B2 down) Low Battery	3 IR/RF transmissions (each transmission @ 2ms in duration), 400ms apart.
Power Source	Internal 3V/600mAh Lithium battery
Average Battery Life *(Assuming tag is in-motion 7 hours per day, 7 days per week)*	Dual RF/LF: 3 years Triple RF/IR/LF: 1.5 years
Red LED Indicator	Low Battery: Flashes once every 10 seconds Upon Entry into LF Area or Exit out of LF Area: Flashes twice Band Closed/Band Opened: Flashes twice
Badge ID	Unique factory programmed ID
General Specifications	
Construction	Grilamid nylon
Dimensions (H x W x D)	39.4 X 31.5 X 14.8 mm (1.55 x 1.24 x 0.582 inches)
Tag Weight	15 grams (0.5 ounces) approximate
Operating Environment	Temp: -10°C to 70°C (14°F to 158°F), Humidity: 20% to 80% non-condensing
Water Rated Enclosure	Tag: IP-67/Complete Bracelet: IP-55
Remote Management	EIRIS 4.5 (or higher) enterprise software
Standards	EN300 2220-1 & 2 EN 301 489-1&3, EN60601-1-2, CISPR 11:2004 Class B, IEC 61000-4-2 & 4-3 FCC Part 15.231 Level C, FCC ID: 04X5-BTD0043, IC ID: 1467G-BTD00433
Warranty	1 year limited warranty (excluding battery)

All specifications are subject to change without notice.

Ordering Information

Part Number	Description
5-BTD00433	Baby Reusable Tag, WR, IR/RF/LF, 433MHz, 10/10/60
5-BTD90433	Package of 10 Baby Reusable Tags, WR, IR/RF/LF, 433MHz, 10/10/60, includes 2 extractors
5-BTD00433-1	Baby Reusable Tag, WR, RF/LF, 433MHz, 10/60
5-BTD90433-1	Package of 10 Baby Reusable Tags, WR, RF/LF, 433MHz, 10/60, includes 2 extractors

Selected Compatible Accessories

Part Number	Description
5-BTC90001	Disposable Tamper Band, Infant, 16cm/6.0 inch maximum diameter, (50 units)
5-BTC90001-1	Disposable Tamper Band, Pediatric, 24cm/ 9.0 inch maximum diameter, (25 units)
5-BTC90003	Extractor Tool (10 units)
5-BTC90006	Grip key w/lanyard (5 units)
5-BTC09433	Dummy Reusable Tag

For a complete list of compatible accessories, please contact your local VT Sales Representatives.

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About Visonic Technologies

Visonic Technologies (VT) is a global leader in Active RFID/RTLS safety and security solutions for the changing healthcare industry. VT delivers out-of-the-box as well as custom tailored risk mitigation tools that enhance patient and personnel safety; reduces asset shrinkage and labor costs; lessens negligence litigation and facilitates industry guideline compliance.