

Infant Protection Bracelet

Description

The Elpas Infant Protection Bracelet is a rechargeable miniature, unified active long-range Radio Frequency (RFID) and Infrared device. The bracelet provides 24/7 infant protection by tracking the real-time location of newborns in maternity wards and by generating mother-baby mismatch alarms.

The Infant Protection Bracelet is comprised of a rechargeable tag and a disposable, anti-tamper, adjustable band made of skin-safe non-latex materials that can be retightened should the baby loose weight. When worn by the newborn, the bracelet automatically transmits removal alert notifications for keeping facility personnel informed of deliberate or accidental tampering and/or removal of the baby from the protected area.

The bracelet's all-in-one, dual technology transmitter continuously emits low power, beacon type radio frequency (RF) supervision messages as well as safe, supplemental infrared (IR) messages that identifies the exact real-time location of the new born infant. This same RF/IR technologies also continuously broadcasts the operational status of the tag (such as it's battery state or the condition of its tamper wire). The bracelet's onboard magnetic low frequency (LF) receiver adds chokepoint area detection so whenever the new born infant nears a prohibited exit/entrance covered by an Elpas LF Exciter a security intervention alarm is raised.

The Infant Protection Bracelet is small in both size and weight and is enclosed a tough ABS, IP-66 water rated outer casing. Powered by an internal rechargeable lithium battery, the badge's 'Hibernation' power management protects the battery from total discharge and greatly extends the life expectancy of the tag. The badge also has two LEDs for indicating operational status, tamper & low battery condition.

Product Features

- Small size and weight
- Tough, shock proof, water resistant housing
- Instant tamper/removal indication
- Dual RF/IR signaling technologies
- Onboard LF receiver
- Adjustable, latex-free, disposable anklet bands
- Hibernation power management mode
- Internal rechargeable lithium ion battery pack
- Flashing low battery indicator
- CE and FCC approved



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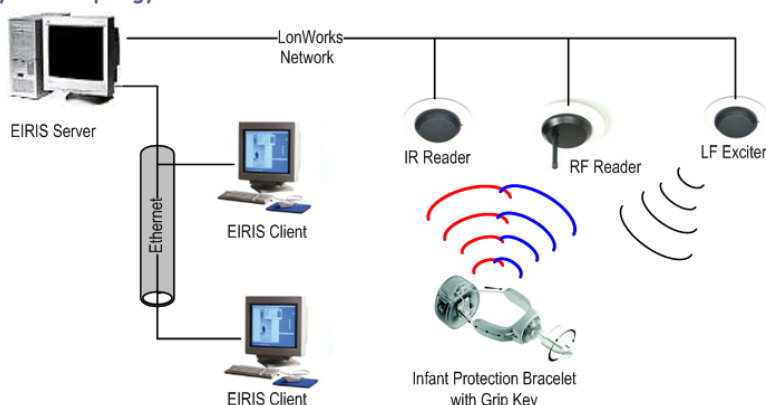
Applications & Uses

- Verifiable newborn identification
- Baby abduction prevention
- 24/7 infant supervision
- Real-time newborn tracking
- New born/ mother matching
- Baby movement and auditing
- Unauthorized baby handling
- Exit/entrance security supervision

Elpas Infant Protection Bracelet – Data Sheet

Electrical Specifications	
Transmissions Rates	IR: 7.5 Seconds - Constant / RF: 15 seconds – Constant / While In Charger RF/IR: 120 seconds - constant
RF Transmission Rate upon entry into LF area	Burst of 4 supervision messages (each lasting @ 2ms) with intervals of between 200 and 400ms, and the total burst time not exceeding 1 second
Events: Band Closed (B2 up) Band Opened (B2 down) LF & Tamper	Single burst of 4 messages (each lasting @ 2ms) with intervals of between 200 a 400ms, and the total burst time not exceeding 1 second
LF and Tamper Check	Every 600ms
Power Source	One Lithium Ion rechargeable battery pack
Time Between Charges	Approximately 1 week between recharges
Battery Life	3 years - approximate
Hibernation Mode	Initiates 12 hours after band is open, 48 hours after low battery, 30 minutes after removal from charger
Hibernation Supervision	Transmits motionless RF/IR messages every 10 minutes
Hibernation Warning	Transmits a burst of 4 motionless messages prior to hibernation
Green LED Indicator	Operational Mode: Flashes once every 15 seconds Disposable Band Removed/Connected: Rapidly flashes 4 times Hibernation Mode: Not Lit
Red LED Indicator	Low Battery: Flashes once every second
Badge ID	Unique factory programmed ID
General Specifications	
Construction	Polymer plastic
Dimensions (H x W x D)	39.4 X 31.5 X 14.8 mm (1.55 x 1.24 x 0.582 inches)
Weight (assembled)	20 grams (0.75 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-66 / Complete Bracelet: IP-55
Remote Management	EIRIS 4.5 (or higher) enterprise software
Compliance Standards	EN301489-1, EN301489-3, EN60601-1-2, CISPR 11, EN60950-1, IEC61000-4-2, IEC61000-4-3, IEC60601-1, EN300 220-1, EN300 220-2 FCC Part 15.231 Level C, FCC ID#: GSA-BTC00433 (433.92 MHz)
Warranty	1 year limited warranty (excluding battery)

System Topology



Ordering Information

Part Number	Description
5-BTC00433-A	Rechargeable Tag, IR/RF/LF, 433MHz, 7.5/15/60
5-BTC00433	10 Rechargeable Tags, IR/RF/LF, 433MHz, 7.5/15/60, incl. 2 extractors
5-BTC00433-B	Rechargeable Tag, RF/LF. 433MHz, 15/15
5-BTC00433-1	10 Rechargeable Tags, RF/LF, 433MHz, 15/15, incl. 2 extractors

Accessories

Part Number	Description
5-BTC90001-1	Disposable Tamper Band, Pediatric, 24cm max. diameter, (25 units)
5-BTC90001	Disposable Tamper Band, Infant, 16cm max. diameter, (50 units)
5-BTC90003	Extractor, Infant (10 units)
5-BTC90006	Grip key w/lanyard (set of 5)
5-BTC09433	Dummy Rechargeable Tag
5-CRG90001	Charger, 6 position, European standard
5-CRG90001-1	Charger, 6 position, US standard
5-CRG90001-2	Charger, 6 position, UK standard

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About Visonic Technologies

Visonic Technologies (VT), a fully owned subsidiary of Visonic, Ltd. (VSC.L) is a global leader in enterprise-class, active & passive RFID/ RTLS real-time visibility solutions. Sold under the Elpas, SpiderAlert, VisAccess & EIRIS system names, VT's products deliver personnel identification and safety; supply-chain logistics, asset protection and facility supervision.



Manufactured In Israel

