Active Identity Badge

Description

The Elpas Active Identity Badge is an ultra-low power, unified, long-range active Radio Frequency (RFID) and Infrared device. Designed to look like an industry-standard photo ID badge, the device is intended primarily for protecting those staff members and lone workers most at risk from patient violence and aggression in both interior and/or exterior areas. The unique form factor of the badge makes it usable as a clip-on photo ID personnel badge. Or, when inserted into its corresponding card holder (sold separately) the device may be bundled with any standard credit-card size access control card; and user worn either horizontally (landscape format) or vertically (portrait format).

The badge's all-in-one, dual technology transmitter continuously emits low power, UHF (433.92MHz) beacon type radio frequency (RF) supervision messages plus supplemental infra-red (IR) messages. All together, this unique methodology delivers the exact real-time location of people to sub-room level precision with unparalleled reliability.

The Active Identity Badge features two one-touch fully customizable emergency/duress signaling buttons for ensuring complete, around-the-clock staff and visitor supervision. The badge's onboard magnetic low frequency (LF) receiver (125KHz) also adds chokepoint type area detection so whenever a badge wearer nears a protected exit/entrance covered by an Elpas LF Exciter any number of user definable alerts or alarms may be triggered. Optionally, the badge is designed for use as an electronic proximity key for doors protected by VisAccess Tag-In-A-Bag, AXS-10, AXS-100/200 systems or other third-party EM 4100 compliant or Wiegand 26-bit compatible access control solutions.

Small in size (5.0cm x 8.3cm x 0.9cm) and weight (32 grams) the Active Identity Badge is housed in an epoxy potted, IP66 rated, weatherproof black thermoplastic outer casing. Powered by a single, replaceable lithium long life battery (five-year estimated usage), the badge's power efficient design ensures years of maintenance free deployments in harsh indoor and outdoor environments such as manufacturing operations, medical facilities or maximum security correctional institutions

Stand-Alone Badge Configuration

Open-Front Card Holder Configuration

Product Features

Industry-standard badge size and weight
Photo identification name labels
Distinctive form factor
Horizontal/Vertical formatted card holder
Two customizable signaling buttons
Shock-proof IP66 water rated outer casing
Triple-Tech RF, IR and LF signaling technologies
EM 4100 proximity card compliant
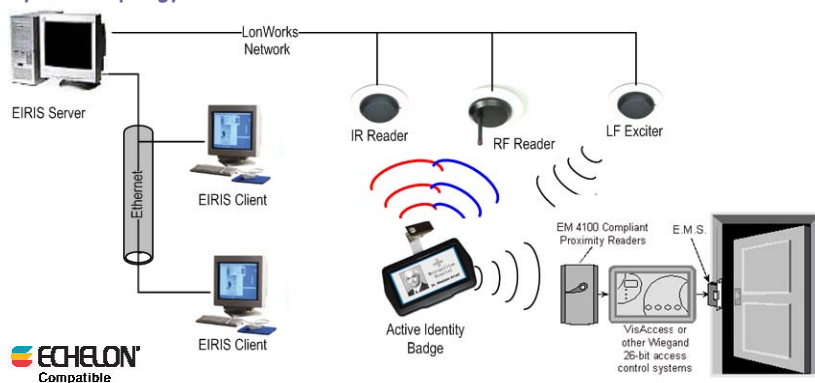Long battery Life – approximately five years

Applications & Uses

24/7 personnel and/or visitor supervision
Personnel and visitor identification
Caregiver location finding
Exit/Entrance proximity alert notifications
Wireless emergency/duress signaling
Hands-free access control
Efficiency and response reporting

Elpas Active Identity Badge – Data Sheet

Technical Specifications	
Radio Technologies	IR, RF (433.92 MHz) and LF (125KHz)
RF: (In-motion / Stationary)	Supervision messages every 10 seconds / 20 seconds
*RF: (In-motion / Stationary) Only Part #: 5-PBA00433-7	Supervision messages every 10 seconds / 60 seconds (after 1 hour)
IR: (In-motion / Stationary)	Supervision messages every 5 seconds / 60 seconds
RF Transmission Rate upon entry into LF area	Burst of 4 messages (each lasting @ 2ms) with intervals of between 250 - 400ms randomized, and the total burst time not exceeding 1 second
RF Range	Up to 200 meters/ 656 feet in open areas (360° coverage area)
LF Sampling: (In-motion / Stationary)	Every 500ms / 15 seconds
RF under LF Rate	2 seconds; after 10 minutes returns to 10 seconds
IR under LF Rate	10 seconds
LF Timeout	Transmits 2 non-LF messages after not hearing from LF for this amount of time
Time to Idle	10 seconds
Button Press / Release	4 IR/RF transmissions (each transmission @ 2ms in duration), 400 ms apart
Power Source	3V/600mAh Lithium Battery, type: CR2450
Battery Life	Aapproximately 5 years (Assuming badge is in-motion 9 hours per day 7 days per week)
Low Battery Voltage	2.3 volts
Visual Indicator	Red LED specifics button press and release
Badge ID	Unique factory programmed ID

Proximity Specifications	
Card Standard	EM 4100 compliant
Operating Frequency	125 kHz
Typical Working Range	Up to 30cm (11.8 inches) - Actual range depends on proximity reader type

General Specifications	
Construction	Black ABS polymer plastic
Dimensions (H x W x D)	5.0cm x 8.3cm x 0.9cm (2.0 inches x 3.27 inches x 0.35 inches)
Weight (assembled)	32 grams (1.128 ounces)
Operating Environment	Temp: -10°C to 70°C (14°F to 159°F), Humidity: 100% non-condensing
Housing	IP66 water rated enclosure
Remote Management	EIRIS 4.5 (or higher) enterprise software
Compliance Standards	EN 60950-1, IEC 60601-1, EN60601-1EN 300 220-1 and EN 300 220-2 FCC ID: 04X5-PBA00433, FCC Part 15.231, Sub-part B, Class B and Sub-part C
Warranty	1 year limited warranty (excluding battery)

System Topology

ECHELON Compatible

Ordering Information

Part Number	Description
5-PBA00433	Active Identity Badge, WP, IR/RF/LF, 433MHz, 4.5/10/60
5-PBA00433-1	Active Identity Badge, WP, RF/LF, 433MHz, 10/60
5-PBA00433-2	Active Identity Badge, WP, IR/RF/LF/Prox, 433MHz, 4.5/10/60
5-PBA00433-3	Active Identity Badge, WP, RF, 433MHz, 10/60
*5-PBA00433-7	Active Identity Badge, WP, RF, 433MHz, 0.6/60
5-PBA00880	Active Identity Badge, WP, IR, 433MHz, 4.5/60

Accessories

Part Number	Description
5-PBA90001	Personnel Identity Badge - Clip Attachment (25 pcs)
5-PBA90002	Open Front Card Holder, Horizontal/Vertical, (5 pcs)
5-PBA90003	3V/600mAh Lithium Battery, CR2450 (25 pcs)
5-PBA90004	Personnel Identity Badge - Label Covers (25 pcs)

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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 and EIRIS system names, VT's products deliver workforce identification and safety; supply-chain logistics, asset protection and facility supervision.

Manufactured In Israel

CE FC

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Enterprise Protection Solutions