

This RFID broadcast tag is intended for tracking people in hazardous environments.

This RFID broadcast tag is intended for tracking people in hazardous environments such as in chemical plants, petrol and gas industries and oil rigs. This compact people tracking tag is able to send data at distances of up to 150 meters (500 ft) to either a mobile (handheld) or fixed reader with high accuracy and reliability. Due to its small size and form, the tag is comfortably worn by all personnel.

The marker technology enables visibility & control if someone moves in or out through a gate or other zone-based locations. In this application, the inductive marker field informs the sensor about the current location. In real-time the tag sends its location information several times to the reader through its RFID capabilities. Even after the tag has left the marker field, it transmits this data steadily at a configurable ping rate.

Due to its ultra-low power consumption and configurable ping rate (one second to five minutes), the tag can effectively operate maintenance free for many years.



Key Features

- ✓ 150 m (500 ft) long read range
- ✓ UHF operating frequencies
- ✓ Non-line-of-sight data transmission
- ✓ Automatic transmission
- ✓ Spot location for gate application
- ✓ Industrial housing

Applications

- ✓ Chemical plants
- ✓ Oil rigs
- ✓ Petrol and gas industries

Technical Specifications

Communication Broadcast 350

Operation Mode Transmits Sensor ID and user data in pre-defined interval

Read Range up to 150m (500ft)*

Compatibility 227002, 227003, 227004

Operating Frequency 868 MHz (EU) or 920 MHz (NA)

Transmit Power <1mW

Communication Response 350

Operation Mode Bi-directional communication (reading log, blink LED, write/read data)

Read Range up to 75m (200ft)*

Compatibility 227002, 227003, 227004

Operating Frequency 868 MHz (EU) or 920 MHz (NA)

Transmit Power <1mW

Communication Marker

Operation Mode Receives Marker ID and transmits marker information several times via Broadcast 350 telegrams

Read Range up to 5 m (16ft)*

Compatibility 491013, 491014

Operating Frequency 125 kHz

Electrical

Power Source Lithium Battery (non-replaceable)

Battery Monitoring Yes

Data

Data Retention > 10 years without power

Write Cycles 100,000 writes

Memory Size 10,000 Bytes user definable

Identification Code 48 bit fixed ID

Environmental Conditions

Operating Temperature	-40 °C to +70°C (-4 °F to +158 °F)
Shock	Multiple drops to concrete from 1m (3ft), 3 times DIN IEC 68-2-27
Humidity	10% to 95% relative humidity @ 30°C
Vibrations	3G, 20 sine wave cycles, 5 to 150 Hz, DIN IEC 68-2-6 5G, noise 5 to 1.000 Hz, 30 minutes, DIN IEC 68-2-64
Configuration	
Device	227002, 227003, or 227004
Ping Rate	Configurable from 0.5 to 300 seconds in steps of 0.5 seconds
Number of Bursts	Configurable from 0 to 15
Broadcast User Data	Up to 50 Bytes
Standard/Certification	
Europe	CE (EN 300 220-1, -3; EN 301 489-1,-3; EN 60950)
North America	FCC Part 15 (US); Industry Canada
Mechanical Data	
Dimensions	56 x 30 x 14 mm (2.2 x 1.2 x 0.6 inches)
Enclosure	Plastic
Weight	40 grams (1.41 ounces)
Enclosure rating	IP 65

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