

***This RFID tag combined with long-range technologies is ideally suited for demanding environments such as chemical plants, petrol and gas industries and oil rigs.***

This RFID broadcast tag combined with long-range technologies is ideally suited for demanding environments such as chemical plants, petrol and gas industries and oil rigs.

This tag sends data at distances of up to 150 meters (500 ft) to either a mobile (handheld) or fixed reader (interrogator).

The marker technology enables visibility and 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. The tag sends its location information in real-time several times to the reader through its RFID capabilities. Even after the tag has left the marker field, it transmits data steadily at a configurable ping rate.



**Key Features**

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

**Applications**

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

## 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 5m (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 at 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, 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



**GAO Group**

[GAORFID.com](http://GAORFID.com)  
[GAOTek.com](http://GAOTek.com)  
[GAOResearch.com](http://GAOResearch.com)

Toll Free (USA & Canada)

**1-877-585-9555**

All Other Areas

416-292-0038

Dial Ext.601 for Sales  
Ext.602 for Other Inquiries

[sales@GAORFID.com](mailto:sales@GAORFID.com)