This sensor is well suited for a variety of wireless applications including identification, tracking and localization of high value assets and personal.

This RFID RTLS tag and marker is well suited for a variety of wireless applications including identification, tracking and localization of high value assets and personnel.

The high speed localization tag delivers instant identification as well as precise location of assets or personnel within 1m (3ft). It is equipped with marker technology for locating goods, and vehicles. The marker technology allows selective locating of a sensor in adjacent car tracks. The inductive marker field informs the sensor about its current location.

It transmits and receives data at distances of up to 250 m (800 feet). It also can be easily configured to beacon data at a configurable rate to a range of up to 500 m (1600 ft).

Equipped with LED, the tag provides visual recognition. The light is visible from almost every direction.
Key Features

✓ Up to 300m (1000ft) localization range
✓ UHF operating frequencies
✓ Spot location for gate applications
✓ Industrial housing
✓ Beacon communication mode
✓ Response communication mode
✓ LED
✓ Push button
✓ Extended battery lifetime

Applications

✓ Identification
✓ Tracking
✓ Localization of high value assets
# Technical Specifications

<table>
<thead>
<tr>
<th>Communication Broadcast</th>
<th>Operation Mode</th>
<th>Transmits Sensor ID and user data in pre-defined interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read Range</td>
<td>up to 500 m</td>
<td></td>
</tr>
<tr>
<td>Compatibility</td>
<td>227002, 227003, 227004,</td>
<td></td>
</tr>
<tr>
<td>Operating Frequency</td>
<td>868 MHz (EU) or 920 MHz (NA)</td>
<td></td>
</tr>
<tr>
<td>Transmit Power</td>
<td>&lt;1mW</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Communication Response 350</th>
<th>Operation Mode</th>
<th>Bi-directional communication (reading log, blink LED, write/read data)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read Range</td>
<td>up to 250m</td>
<td></td>
</tr>
<tr>
<td>Compatibility</td>
<td>227002, 227003, 227004,</td>
<td></td>
</tr>
<tr>
<td>Operating Frequency</td>
<td>868 MHz (EU) or 920 MHz (NA)</td>
<td></td>
</tr>
<tr>
<td>Transmit Power</td>
<td>&lt;1mW</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Communication RTLS</th>
<th>Operation Mode</th>
<th>Distance Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read Range</td>
<td>up to 300 m</td>
<td></td>
</tr>
<tr>
<td>Compatibility</td>
<td>27003, 227004, 217009</td>
<td></td>
</tr>
<tr>
<td>Operating Frequency</td>
<td>2.4 GHz</td>
<td></td>
</tr>
<tr>
<td>Transmit Power</td>
<td>&lt;100 mW</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Communication Marker</th>
<th>Operation Mode</th>
<th>Receives Marker ID and transmits marker information several times via Broadcast 350 telegrams</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read Range</td>
<td>up to 5m</td>
<td></td>
</tr>
<tr>
<td>Compatibility</td>
<td>491013, 491014</td>
<td></td>
</tr>
<tr>
<td>Operating Frequency</td>
<td>125 kHz</td>
<td></td>
</tr>
</tbody>
</table>
## Electrical

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Source</td>
<td>Lithium Battery (replaceable)</td>
</tr>
<tr>
<td>Battery Monitoring</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## Data

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Retention</td>
<td>&gt; 10 years without power</td>
</tr>
<tr>
<td>Write Cycles</td>
<td>100,000 writes</td>
</tr>
<tr>
<td>Memory Size</td>
<td>10,000 Bytes user definable</td>
</tr>
<tr>
<td>Identification Code</td>
<td>48 bit fixed ID</td>
</tr>
</tbody>
</table>

## Environmental Conditions

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-40 °C to +85 °C (–40 °F to +185 °F)</td>
</tr>
<tr>
<td>Shock</td>
<td>Multiple drops to concrete from 1m (3ft), 3 times DIN IEC 68-2-27</td>
</tr>
<tr>
<td>Humidity</td>
<td>10% to 95% relative humidity at 30°C</td>
</tr>
<tr>
<td>Vibrations</td>
<td>3G, 20 sine wave cycles, 5 to 150 Hz, DIN IEC 68-2-6</td>
</tr>
<tr>
<td></td>
<td>5G, noise 5 to 1.000 Hz, 30 minutes, DIN IEC 68-2-64</td>
</tr>
</tbody>
</table>

## Configuration

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device</td>
<td>227002, 227003, 227004,</td>
</tr>
<tr>
<td>Ping Rate</td>
<td>Configurable from 0.5 to 300 seconds insteps of 0.5 seconds</td>
</tr>
<tr>
<td>Number of Bursts</td>
<td>Configurable from 0 to 15</td>
</tr>
<tr>
<td>Broadcast User Data</td>
<td>Up to 50 Bytes</td>
</tr>
</tbody>
</table>

## Standard/Certification

<table>
<thead>
<tr>
<th>Region</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe</td>
<td>CE (EN 300 220-1, -3; EN 301 489-1,-3; EN 60950)</td>
</tr>
<tr>
<td>North America</td>
<td>FCC Part 15 (US); Industry Canada</td>
</tr>
</tbody>
</table>

## Mechanical Data

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>137 x 37.5 x 26.5 mm (5.4 x 1.48 x 1.04 in.)</td>
</tr>
<tr>
<td>Enclosure</td>
<td>Plastic</td>
</tr>
<tr>
<td>Weight</td>
<td>50g (1.75 ounces)</td>
</tr>
</tbody>
</table>
Enclosure rating

IP 65

GAO Group

GAORFID.com
GAOTek.com
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