Applications

The Sense Locate – Position LoRa/GPS device is ideal for applications requiring long range tracking such as:

- Cold chain condition monitoring
- Container management
- Facilities management
- Ports construction and mining
- Field operations
- Asset management
- Worker accountability
- Fleet monitoring
- Yard management

Operational Specifications

Radio Protocol
- LoRaWAN
- NFC (Beacon configured via NFC)

Supported Profiles
- 868 MHz – Europe
- 915 MHz – USA

Battery Type
- Sealed prismatic battery, non-replacable

Battery Capacity
- 4.8 Ah

Battery Life
- 5 years, 2,000 movements

Read Range
- 3–4 km urban — can be up to 15 km line of sight

Default Beacon Rate
- Configurable from 1-254 hours

Alarm Beacon Rate
- Configurable from 0–254 minutes (where 0 is off)

Sensors
- GPS, Accelerometer, Temperature

Temperature Sensor Range
- -20°C to +60°C with an accuracy of ± 2°C

Visual Indicator
- LED

Physical Specifications

Construction
- Overmolded durable, shock resistant TPE (Thermoplastic elastomer)

Size (mm)
- 113.4 × 58.3 × 24.3

Size (in)
- 4.46 × 2.30 × 0.96

Weight (g)
- 134

Attachment
- Mechanical (std)

Dimensions

Dimensions in mm

Environmental Specifications

Operating Temperature
- -20°C to +60°C

IP Rating
- IP68

Shock & Vibration
- MIL-STD-810 F
**Powerful Features**

- Rugged LoRaWan GPS Device
- Sensors: GPS, Accelerometer, Temperature
- 3–4 km urban read range — up to 15 km line of sight
- Deployment as LoRaWAN or standalone private network

**Related System Components**

| LoRa Technology Evaluation Kit | Including LoRa devices, user guide and MultiTech reader |

**Configurable Parameters**

| Default Beacon Rate (in hours) | Alarm Beacon Rate (in minutes) |
| High Temperature Threshold | GNSS Maximum Lock Time (in minutes) |
| Low Temperature Threshold | GNSS Minimum Lock Time (in minutes) |
| Accelerometer Threshold | GNSS DoP Threshold |

**Ordering Information**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Warranty</th>
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<tbody>
<tr>
<td>CP14295 (EU version)</td>
<td>1 year</td>
</tr>
<tr>
<td>CP14296 (USA version)</td>
<td></td>
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</tbody>
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**Certifications:**

- CE
- FCC
- RoHS
- NFC
- LoRa™

**Meeting Your Requirements**

Our Sense range of IoT devices has been designed with a wide range of use cases in mind. However, we realise that your exact requirements may not be met by an ‘off the shelf’ product and a combination of the many features in the Sense range could be required. Our engineers and technical teams like nothing more than to solve specific tracking and communication challenges (it’s what gets them out of bed in the morning) and we would be happy to consider a bespoke version of ‘Sense’ tailored to your particular scenario. [Contact us at sales@omni-id.com to find out more.](mailto:sales@omni-id.com)