



## [Technology] you can identify with

# Everything you need to evaluate the Sense LoRaWAN devices in one case.

### Introduction

Omni-ID has harnessed the power of LoRaWAN to create hugely effective IoT devices.

There's a lot of clever stuff in these intuitive little devices and we love sending out samples but it is when you get your hands on the demo kit that you can quickly and easily start to see how they work and how well they interact with our cloud based IoT platform (OmniSphere).

Everything you need is contained in the kit so you will soon be able to view data from the devices within our OmniSphere platform via the pre-configured gateway contained within the kit.

The devices can be activated and de-activated using the magnet that comes with the kit or by using the Sense Config PC app with NFC programming board that is also included. Alternatively you can use the Sense Config Android app installed on an NFC compatible Android mobile device.



### Sense LoRaWAN products features:

- Very long reach, with up to 4 km in urban areas and 15 km in open field
- Long battery life of up to 5 years
- Simple sensing input
- Enhanced GPS accuracy, providing 3–5 m
- License free usage – uses same frequency bands as UHF RFID
- Minimal infrastructure requirements versus alternative technologies

### Kit Contents

- 5 Sense Asset devices
- Multitech Reader with power cable, network cable, USB cable and antenna
- NFC Programmer and USB charging cable
- USB stick containing a detailed user guide which also includes details of how to access the OmniSphere software
- A magnet for activating/de-activating the devices

### Key Features of the Sense Locate – Position IoT device

- Radio Protocol – LoRaWan, NFC (Beacon configured via NFC)
- Battery Life – 5 years+ (2,000 movements)
- Read Range – 3-4km urban. Can be up to 15km line of sight
- Construction – Overmolded durable, impact resistant TPE (Thermoplastic Elastomer)
- Sensors – GPS, Accelerometer, Temperature
- Temperature Sensor Range -20°C to +60°C with an accuracy of ±2°C





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The real power behind the Sense Technology Evaluation Kits is OmniSphere – our cloud based IoT platform that integrates all data from Sense devices in a single place, providing simple data collection, interpretation, storage and visualisation.

OmniSphere is an extension of your hardware in the ‘cloud’ allowing you to interact with your devices. It provides for easy evaluation of Omni-ID’s Sense products by removing the need to configure network servers. The platform accesses gateways to obtain device data, removing the need to manually decode device payloads to obtain device sensor data.

The devices in your kit are pre-configured to OmniSphere and your gateway so as soon as you activate, turn them on you will be able to see live data - interpreted, stored and displayed on a user-friendly graphical user interface (all that is required is to plug in the gateway to a network switch to provide an internet connection - the gateway will then automatically push the device data it receives to OmniSphere).

OmniSphere has a range of dashboards displaying data from motion alarm, temperature sensor and GNSS coordinates that can be viewed on a configurable map. The current and previous position of the devices can also be reviewed on a map.

OmniSphere’s rule engine includes basic features such as generating alerts based on sensor data such as alerting via email when a device enters or leaves a geofence or notification that a device is reporting that the measured temperature is out of a pre-configured threshold.

OmniSphere allows for precise and quick evaluation of Omni-ID Sense products, simplifying technology evaluations and enabling ‘proof of concept’.

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**The Sense LoRaWAN Technology Evaluation Kit comes in an easily portable protective case.**

**Speak to your usual Omni-ID representative to order yours or e-mail sales@omni-id.com and we'll be happy to get one in your hands as quickly as possible.**



**Visit [www.omni-id.com](http://www.omni-id.com) to learn more or email [sales@omni-id.com](mailto:sales@omni-id.com) for all product or technology inquiries and we will be pleased to get in touch.**

Omni-ID is the leading supplier of passive, low-profile UHF RFID solutions. Through our patented technology, Omni-ID “cracked the code” to overcome the problems traditionally associated with RFID, enabling a broad range of new applications that improve accuracy and efficiency in asset tracking, supply chain management and work-in-process. Our family of versatile RFID tags works reliably in the harshest environments, including on, off, and near metal and liquids and excels in solving tracking and identification challenges with unprecedented accuracy. With offices in the USA, UK, Asia and India backed up by a purpose-built manufacturing facility in China, our mission is to drive the widespread adoption of RFID and wider IoT technologies as the optimal tracking and identification devices.