



GeoSense.™

Ultra-rugged GPS location and tracking with shock, vibration and tilt monitoring.

GeoSense.™ is a compact industrial-grade IoT Tracking and Asset Status device designed to remotely monitor the GPS location and operating state of infrastructure assets in order to provide valuable real-time information for security, safety and servicing purposes. The device detects and reports shock and vibration, providing insights into how the asset is being used and operated. It can also be used to measure ambient temperature.

Rated to IP68 standard, GeoSense.™ is fully protected from the ingress of dust, sand and water, and is built to deliver years of reliable service in a wide range of indoor and outdoor operating environments.

The device uses the global Sigfox wireless network to connect to the PiP Services platform where relevant analytics can be conducted and reported using data from multiple on-board sensors.

The Sigfox downlink capability can be used to remotely reconfigure a range of settings in the device firmware, including sensor trigger thresholds and transmit profiles, allowing battery life to be optimised.

The PiP API Service provides users with secure real-time access to their processed sensor data, device health information and the capability to send downlink messages to reconfigure devices.

GeoSense.™ is easy to install using the supplied form-cut adhesive foam pads, and a simple mobile-based installer tool enables rapid activation of the device on the PiP Service platform and Sigfox network.



Actual Dimensions 70 mm x 80 mm x 21 mm (LxWxH)



GeoSense.™

Specifications

KEY FEATURES

- › GPS LOCATION / GEO-FENCING CAPABILITY
- › SHOCK / VIBRATION / SENSING
- › TILT / ORIENTATION SENSING
- › MOTION DETECTION TO ACTIVATE
- › TEMPERATURE SENSING
- › EXPECTED BATTERY LIFE 5 YEARS*
- › LOW POWER NETWORK / LPWAN CONNECTIVITY
- › NEAR REAL-TIME DATA ANALYTICS
- › MOBILE / WEB REPORTING

IEC IEC 61010-1:2010
AS 61010.1:2013

*May vary depending on device configuration and operating environment. See technical specifications for more details.

PRODUCT DESCRIPTION

Product Model numbers	PIPGS01SIG04 (RC4)
Product Dimensions	70 mm x 80 mm x 21 mm (LxWxH)
Weight	137g
Colour	Black
Enclosure Material	Polyamide
Mounting	3M™ VHB™ Tape 4991
Protection	IP68
Operating Temperature	-10° C to +65° C
IoT Network	Sigfox Zone RC4
Power Supply	Lithium battery (Li-SOCl ₂)
Battery Life	5 years*

PERFORMANCE

GPS Accuracy	+/-2m in clear line of site 4+ satellites*
Shock/Vibration Sensor Range	Configurable to +/-2, +/-4, +/-8 and +/-16G
Shock/Vibration Sensor Sensitivity	16mg
Temperature Sensor	+/- 1° C
Tilt Accuracy	+/- 1 deg

OPTIONAL EQUIPMENT

Mounting accessory	Range of mounting brackets
Spares	3M™ VHB™ Tape 4991

SHIPPING SPECIFICATIONS

Storage Conditions	-20° C to +75° C
Shipping volumes available	10, 100, 500 and 1000 devices
Warranty	12-month warranty (see PiP IoT T&Cs)
Origin	Manufactured and assembled in New Zealand