LevelSense.™

Ultra-rugged tank and bin level measurement with optional GPS** position and movement monitoring.

LevelSense.™ / LevelSenseGPS.™ is a compact industrial-grade IoT device designed for remotely monitoring the level of different types of fluids and solids (e.g. water and waste) in tanks, bins and silos. The device can also detect and report a range of other asset states including GPS location**, 3-axis orientation and temperature.

Rated to IP68 standard, LevelSense.™ 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.

Through the global Sigfox wireless network, the device connects to the PiP Services platform which, using complex algorithms, combines raw data from multiple on-board level sensors to generate accurate level measurements.

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.

LevelSense.™ / LevelSenseGPS.™ 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)

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**GPS functionality only available on LevelSenseGPS.™

LevelSense.™

Specifications

KEY FEATURES

› LEVEL / DISTANCE MEASUREMENT

› TILT SENSING CAPABILITY

› GPS LOCATION

› TAMPER / ORIENTATION DETECTION

› TEMPERATURE MEASUREMENT

› EXPECTED BATTERY LIFE 3-5 YEARS*

› LOW POWER NETWORK / LPWAN CONNECTIVITY

› NEAR REAL-TIME DATA ANALYTICS

› MOBILE / WEB REPORTING

› SIGFOX CERTIFIED CLASS 0 FOR SIGFOX ZONE RC4

IEC IEC 61010-1:2010
AS 61010.1:2013

sigfox ready

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

**GPS functionality only available on LevelSenseGPS.™

PRODUCT DESCRIPTION	
Product Model Numbers	PIPLS02SIG01 (RC1) PIPLS01SIG01 (RC1 GPS) PIPLS02SIG04 (RC4) PIPLS01SIG04 (RC4 GPS)
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
Sensor Compatibility	Water (static), solids, waste and most other materials
Operating Temperature	-10° C to +65° C
IoT Network	Sigfox Zone RC4 or RC1
Power Supply	Lithium battery (Li-SOCl2)
Battery Life	3- 5 years*
PERFORMANCE	

Detection Method:
  Ultra Sonic
  Optical
	
	5.5m
	up to 1.8m

Level Measurement Range	2cm up to 2m depending on application
Level Sensor Accuracy	+/- 2cm
GPS Accuracy	+/-2m in clear line of site 4+ satellites**
Temperature Sensor	+/- 1° C
Tilt Sensor 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