



PiP

DigiSense.™

Ultra-rugged monitoring of data and communications for existing industrial sensors.

DigiSense.™ is a compact industrial-grade IoT device designed for remotely monitoring and operating a wide range of existing sensors and actuators embedded in your operational assets or infrastructure. Rated to the IP68* standard, DigiSense.™ 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.

DigiSense.™ uses the global Sigfox* wireless network to connect to the PiP Services platform where data from the multiple external and on-board sensors is amalgamated and then processed utilising algorithms to generate contextual sensor measurements, activation, reports and alerts.

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 Service API 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.

DigiSense.™ is easy to install using screws, and a simple mobile-based installer tool enables rapid activation of the device on the PiP Service platform and Sigfox network.

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



DigiSense.™

Specifications

KEY FEATURES

- › GPS LOCATION*
- › ALERTS FOR SECURITY / SERVICING
- › EXPECTED BATTERY LIFE 5 YEARS*
- › ACCELEROMETER
- › INTERNAL TEMPERATURE SENSOR
- › NEAR REAL-TIME DATA ANALYTICS
- › MOBILE WEB REPORTING

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

PHYSICAL CHARACTERISTICS

Product Model Numbers	DS01SIG04-3.0 (RC4)
Enclosure Dimensions	135 mm x 87 mm x 55 mm (LxWxH)
Weight	450g
Colour	Grey
Enclosure Material	ABS Plastic
Mounting	Screws
Protection	IP68
Operating Temperature	-10° C to +65° C
Power Supply	Lithium battery (Li-SOCI2)
Battery Life	5 years*
IoT Network	Sigfox Zone RC4

CONFIGURATION

Analog Inputs	4 (2 Voltage, 2 Current)	(FACTORY CUSTOMISABLE)
Analog Range	4 to 20mA 0V - 30V	(FACTORY CUSTOMISABLE)
Serial Interface (Not Fitted)	RS232 RS485 SDI-12 CMOS /TTL	(FACTORY CUSTOMISABLE)
Digital IO (Inputs/Outputs)	4	
Digital Inputs Range	0V - 30V inputs	(FACTORY CUSTOMISABLE)
Digital Outputs	Open drain digital outputs	
Digital Inputs	4	
Onboard (default)	Accelerometer & Internal temperature sensor	
Factory Customisable	GPS, Magnetometer, Gyroscope & External NTC on Analogue channels	

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