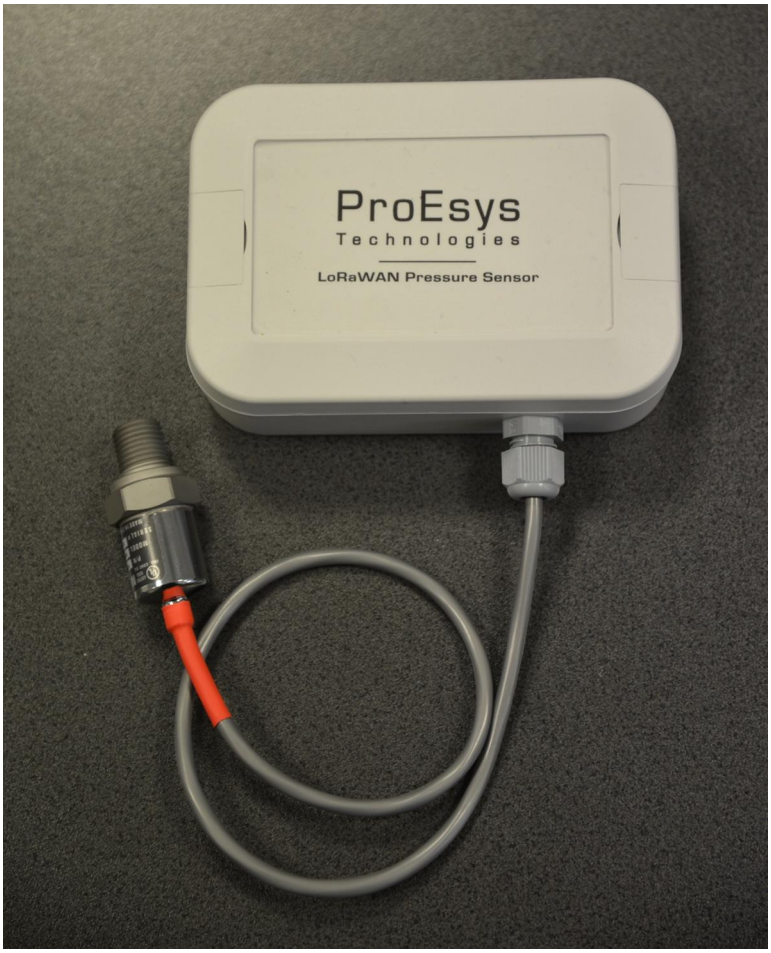
IOT Product Line

LoRaWAN™ Industrial Pressure Sensor

IPS-1

EU 868 MHZ



IPS-1 is an industry-grade pressure sensor enabling LoRaWAN™ transmission of oil / gas / water pressure and it is the fundamental component of a leak detection system.

Completely waterproof, it will last 10 years on battery or externally powered.

Sensor can be selected according to range and mounting requirements (10 bars, 1 / 4" as standard version).

It can be connected to long-range public or private LoRaWAN networks, including ProEsys gateways and Network Server. The sensor includes a LoRaWAN™ compliant protocol stack, allowing the user to focus on its application and not on protocol details.

Can be supplied with DIN-Rail mounting kit or brackets for direct installation on pipe. It is ideally suited for Oil / Gas / Water markets.

FEATURES

Industrial Grade
Totally waterproof, can be installed in any part of network. Battery life up to 10 years.

Easy installation
DIN-Rail mounting or pipe installation

Easy programming
All parameters, including alarm thresholds and transmission intervals can easily be programmed over LoRaWAN network.

APPLICATIONS

- Critical Infrastructure monitoring
- Leak detection
- Smart Agriculture
- Asset Tracking
- Oil & Gas monitoring

SPECIFICATIONS

Main Control Unit	STM32™ Cortex®-M0+
Power supply	Up to 10 years life using LiSoCl2 non-rechargeable battery
Pressure sensor	Standard version includes 10 bars, 1/4" sensor. Other versions on request
LoRaWAN™ RF Module	Semtech® chip based
Operational RF Interface	863 -- 870 MHz
Supported protocol	LoRaWAN™ 1.0
Max TX Power	+14 dBm ERP
Average power consumption	210 µW max
Antenna connection	Standard version includes internal antenna. External antenna on request.
Status indicator	Power, Radio connection, Battery status
Environmental resistance / Operating temperature	IP67 / -30 to + 70 °C
Power On / off	By external activation with magnet. Totally sealed
Dimensions / Weight	Box 130 x 90 x 40mm / 0.3 Kg

Specifications subject to change without notice

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