



LoRaWAN® Operated Low Power Pressure Transmitter for Liquid and Gas Media

- Compatible with all LoRaWAN® frequencies
- Wide range of industrial applications
- High accuracy
- Designed to meet outdoor applications
- Long-term durable performance in harsh environment
- Ultra-low power
- Suitable for liquids and gases compatible with SS



TECHNICAL SPECIFICATION

Sensor

•	Range (bar)	Selectable between 0~0.5 to 0~1000
•	Accuracy (combined linearity, hysteresis, repeatability) (%Span)	±0.25 (typ.)
•	Resolution (%Span)	±0.01
•	Pressure Reference	Vented Gauge, Sealed Gauge, Absolute
•	Temperature Coefficient of Zero (%FS/°C)	≤±0.02
•	Temperature Coefficient of Span (%FS/°C)	≤±0.02
•	Long Term Stability (1 year) (%Span)	≤ 0.2
•	Pressure Overload (%FS)	300 (range <1bar); 150 (higher range)
•	Pressure Cycles (Zero to Full Scale) (Million)	10+
•	Compensated Temperature (°C)	-10 ~ +70
Powe	r	
•	Power Supply	Built-in Replaceable Lithium Battery, External Power (option)
•	Rated Voltage (V)	3.6
•	Battery Lifetime	100,000+ readings and 20,000+ transmission (More than 10 years for most applications)
Phys i	ical	
•	Materials	O-ring: Viton, Body: SS304, Diaphragm: SS316, Oil: Silicon / Olive, Enclosure: ASA/POM
•	Process Connection	G1/4 Male (or others on request)
•	Weight (g)	550
physi	cal	
•	Protection Rate	IP66, UV Protected





Communication

 LoRaWAN® Version, Class 	1.0.2revB, Class A (Class C on request)
 LoRaWAN® Frequency Zone 	AS923, EU868, US902-928, AU915-928 (other zones available on request)
 LoRaWAN® Activation Type 	OTA (default), ABP
Sampling Type	Periodic (default), Event triggered
Sampling Period	Configurable via downlink (default 4 hours)
 Transmission Type 	Per sample (default), Event triggered, Conditional
Parameter Configuration	Over-the-air via LoRaWAN® downlinks Locally via wireless connectivity
Firmware Update	Locally via Wireless Connectivity, Over The Air

NETWORK CONNECTION AND VISUALIZATION Network Integration

 Integratable to all main networks (Actility, Alibaba, Cisco, Digita, Everynet, Helium, Kerlink, kpn, Loriot, machine-Q, Objenious, Orange, Orbiwise, Proximus, Netmore, Sens, Swisscom, TATA, The Things Network (TTN), TTI and any other network)

Visualization And Data Management

 10Sorex white label microservice platform, and Integratable to all main IIoT platforms directly or through the api (AWS, Azure, PTC ThingWorx, Bosch IoT, Cisco Jasper & Kinetic, Sierra Numerex, MathWorks, ThingSpeak, GE Digital Predix, LandisGyr, Siemens MindSphere, Cumulocity, myDevices, Ubidots, TagolO, ALSO AllThingsTalk, HPE IoT and any other major IoT platform).

10Sorex Platform Main Features

- Encrypted ultra-low power communication protocol
- Advanced device inventory
- Integration APIs for enterprise systems
- Multi-tenant role-based access control
- Data export and import
- White-label platform for enterprise runs on private account
- Variable alarm setting for high and low thresholds and multi-channel alerting
- Sampling and transmission interval configuration
- Transmission condition configuration
- Other configurations and customization available on request



Encrypted & ultra-low power



Integratable



Dynamic alerting



Multi-tenant



Scalable



Composable & API first



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MODEL GUIDE

Model C Mod

INDUSTRIES



Water & Environment



Marine & Oceanography



Transport & Logistics



Agriculture & Farming



Mining & Construction



Food & Beverage



Oil & Gas



Smart Building & HVAC



Hydraulics and Compressed Air Systems

APPLICATIONS

- Pump Performance Monitoring
- Water Pipeline Pressure Monitoring
- Pressurized System Monitoring
- Chiller and Cooling System Monitoring

- Hydraulic and Pneumatic Systems Monitoring
- Liquid Storage Level Monitoring
- Spraying System Monitoring
- Air Compressor Monitoring



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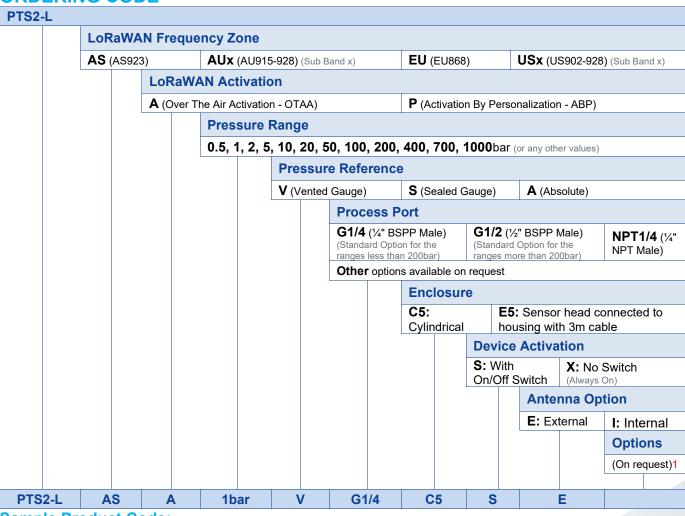
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ORDERING CODE



Sample Product Code:

PTS2-L-AS-A-1bar-V-G1/4-C5-S-E

LoRaWAN® pressure sensor, frequency of AS923, Over The Air Activated, pressure range of 1bar vented, process connection of G1/4 with cylindrical housing (compact and IP65 rated), activated by on-off switch and equipped with external antenna.

1) Product Options:

- EP: sensor with external power supply connector for 12V supply (only for E type enclosure, adaptor is not included)
- EPB: connector for 12V supply with internal battery backup (only for E type enclosure)
- HG: high-gain external antenna
- WF: Active WiFi module on device for communication/ firmware update through Mobile phone NFC module (only for E type enclosure)
- HCB: high-capacity battery (only for E type enclosure)

