



LoRaWAN Operated Low Power Differential 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

36113	UI .	
•	Range (bar)	Selectable between 0~0.1 to 25
•	Accuracy (combined linearity, hysteresis, repeatability) (%Span)	±0.25 (typ.)
•	Resolution (%Span)	±0.01
•	Pressure Reference	Differential
•	Temperature Coefficient of Zero (%FS/°C)	≤±0.02(range > 1bar), ≤±0.04(range < 1bar)
•	Temperature Coefficient of Span (%FS/°C)	≤±0.02(range > 1bar), ≤±0.04(range < 1bar)
•	Long Term Stability (1 year) (%Span)	≤ 0.3
•	Pressure Overload (%FS)	200 (positive side); 100 (negative side, max 10bar)
•	Pressure Cycles (Zero to Full Scale) (Million)	10+
•	Compensated Temperature (°C)	0 ~ +60
owe	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)
hys	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
•	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, Senet, 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



www.10sorex.com



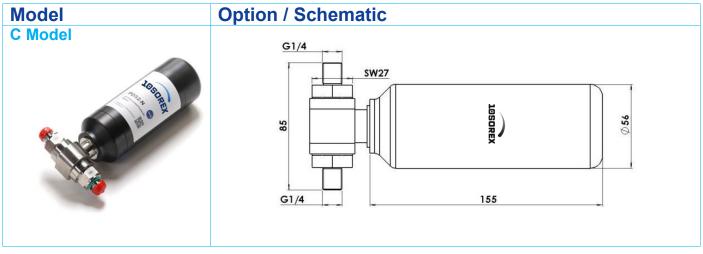
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MODEL GUIDE



INDUSTRIES



APPLICATIONS

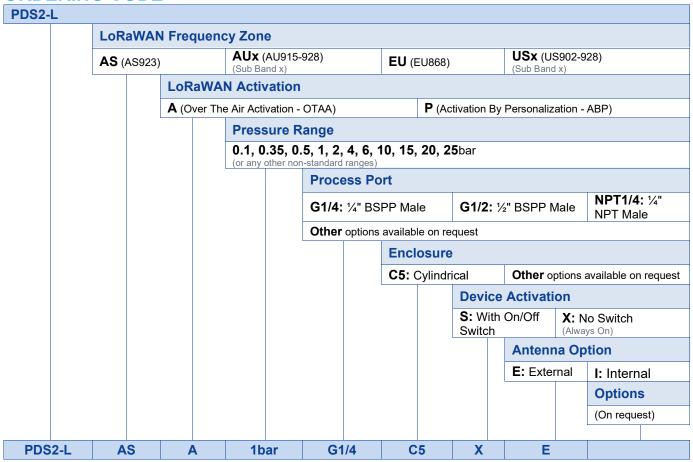
- Pump Performance Monitoring
- Water Pipeline Pressure Monitoring
- Pressurized System Monitoring
- Chiller and Cooling System Monitoring

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





ORDERING CODE



Sample Product Code:

• PDS2-L-AS-A-1bar-G1/4-C5-S-E

LoRaWAN® differential Pressure sensor operated, frequency of AS923, Over The Air Activated, measurement range of 1bar, process connection of G1/4, without on-off switch (always on) and external antenna

