



LoRaWAN Operated Low Power Level Transmitter With Narrow Sensor Head for Liquid 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 compatible with SS



TECHNICAL SPECIFICATION

Range (m H2O)	1, 2, 3, 5, 10 (or other ranges up to 200)
 Accuracy 	±0.25 (typ.)
(combined linearity, hysteresis, repeatability) (%Span)	
 Resolution (%Span) 	±0.01
Pressure Reference	Sealed Gauge
	(with Built-in Atmospheric Pressure Sensor)
 Temperature Coefficient of Zero (%FS/°C) 	≤±0.03
 Temperature Coefficient of Span (%FS/°C) 	≤±0.03
 Long Term Stability (1 year) (%Span) 	≤ 0.2
 Overload Protection (%FS) 	150
 Load Cycles (Zero to Full Scale) (Million) 	10+
 Storage / Operation Temperature (°C) 	-20 ~ +85
 Compensated Temperature (°C) 	0 ~ +60
Power	
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)
Physical	
Materials	O-ring: Viton, Body: SS304, Diaphragm: SS316, Oil: Silicon /
	Olive, Enclosure: ASA/POM
 Process Connection 	No Process Connection (or on request)
Weight (g)	~1200 (for 5m range)
Protection Rate	IP66, UV Protected enclosure and IP68 sensor head





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



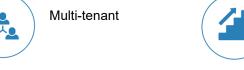
Scalable



Dynamic alerting



Composable & API first





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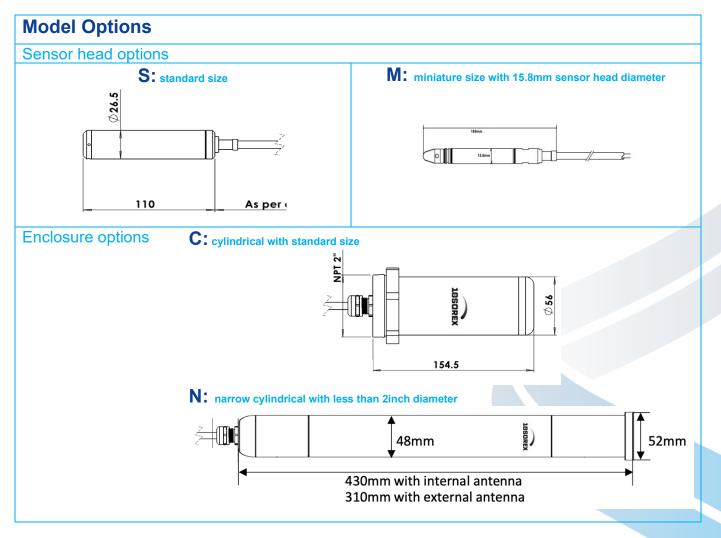
INDUSTRIES



APPLICATIONS

Ground Water Level Monitoring for Narrow Wells

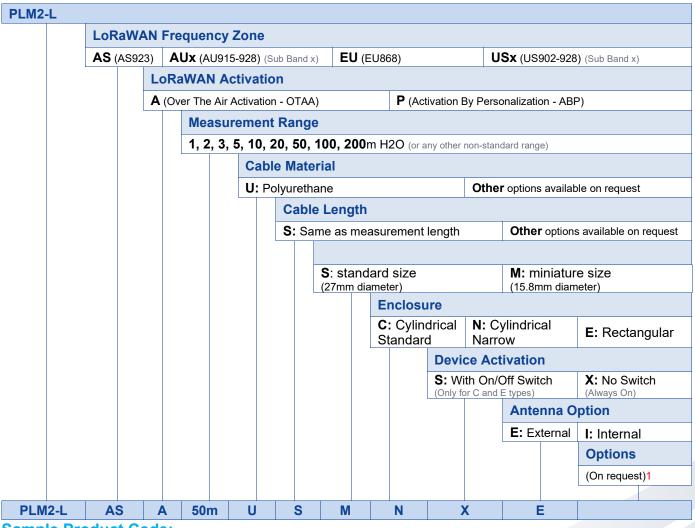
MODEL GUIDE







ORDERING CODE



Sample Product Code:

• PLM2-L-AS-A-50m-U-S-M-C-S-E

LoRaWAN® level sensor with narrow head, frequency of AS923, Over The Air Activated, measurement range of 50m H₂O, with Polyurethane cable and cylindrical narrow enclosure, without on-off switch and 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
- HCB: high-capacity battery (only for N and E type enclosure)

