



LoRaWAN Operated Low Power Level Transmitter for Liquid with Built-in Temperature Sensor

- 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

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•	D (- 1100)	4 0 0 5 40 /
	Range (m H2O)	1, 2, 3, 5, 10 (or other ranges up to 200)
•	Level Accuracy (combined linearity, hysteresis, repeatability) (%Span)	±0.2 (typ.)
•	Temperature Accuracy (°C)	≤±2
	. ,	(temperature sensor is mounted on the back of level sensor and doesn't reflect the media temperature)
•	Resolution (%Span)	±0.01
•	Pressure Reference	Vented Gauge
•	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		(wore than 10 years or most applications)
•	Materials	O-ring: Viton, Body: SS304, Diaphragm: SS316, Oil: Silicon /
		Olive, Enclosure: ASA/POM
•	Process Connection	No Process Connection (or on request)
•	Weight (g)	~1300 (for 3m 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



Dynamic alerting



Multi-tenant



Scalable



Composable & API first



www.10sorex.com



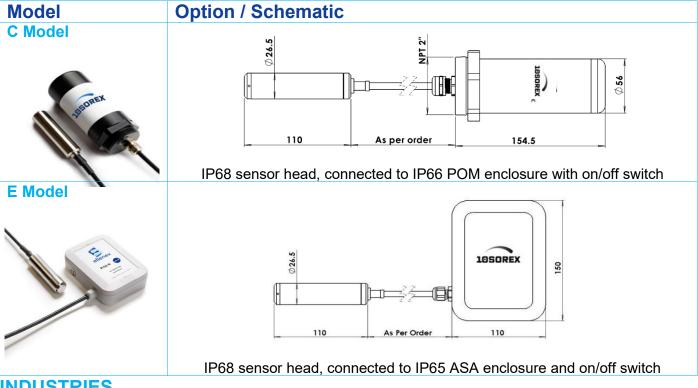
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MODEL GUIDE



INDUSTRIES



APPLICATIONS

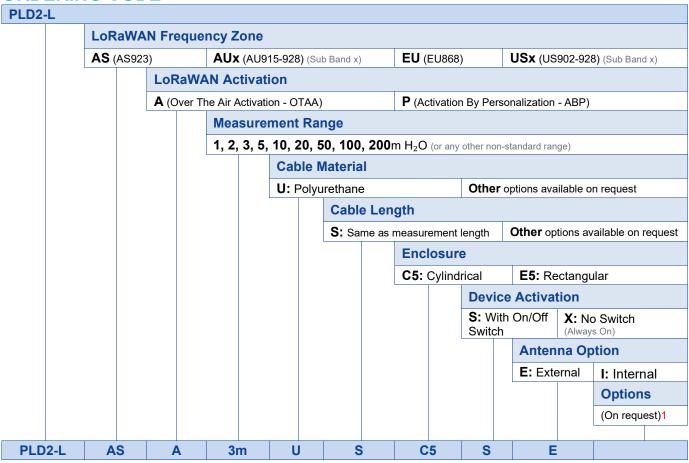
- Water Tank
- **Chemical Tanks**
- Liquid Delivery Systems
- Water Resources Level
- Flood Monitoring

- Diesel Tank
- Liquid Storage
- Hydraulic Containers
- Wastewater Tank
- Water Trough





ORDERING CODE



Sample Product Code:

PLD2-L-AS-A-3m-U-S-C5-S-E

LoRaWAN® level-temperature sensor, frequency of AS923, Over The Air Activated, measurement range of 3m H₂O, with Polyurethane cable and cylindrical enclosure, activated by 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
- 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)

