



LoRaWAN® Operated IP68 Low Power Level Transmitter 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 and Hastelloy



TECHNICAL SPECIFICATION

	\sim	-		\sim	100
-	_	n	-		•
•	•		v	v	

OCHS	OI CONTRACTOR OF THE CONTRACTO	
•	Range (m H2O)	1, 2, 3, 5, 10 (or other ranges up to 200)
•	Accuracy (combined linearity, hysteresis, repeatability) (%Span)	±0.25 (typ.)
•	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
Powe	er	
•	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	ical	
•	Materials	O-ring: Viton, Body: SS304, Diaphragm: SS316, Oil: Silicon, Enclosure: POM
•	Process Connection	No Process Connection (or on request)
•	Weight (g)	~1300 (for 5m range)
•	Protection Rate	IP68, UV Protected enclosure and 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



Sales@10sorex.com



+1 (424) 400-4964



MODEL GUIDE

Model Standard Model 110 As per order 154.5 IP68 sensor head, connected to IP68 POM enclosure with on/off switch

INDUSTRIES



APPLICATIONS

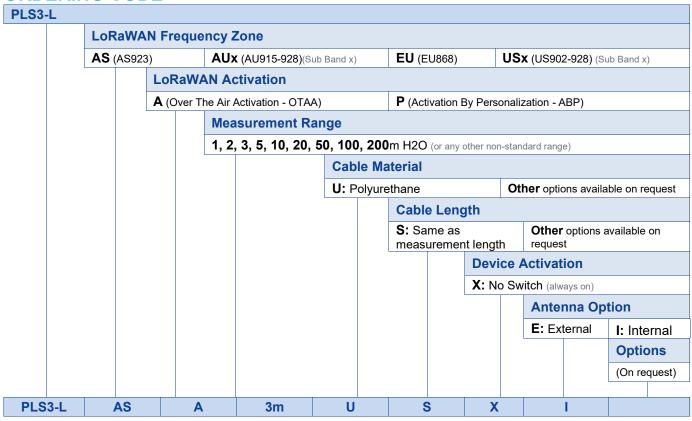
- Bore Hole Level
- Liquid Tanks
- Liquid Delivery Systems

- Wastewater Tank
- Flood Monitoring
- Water Resources Level





ORDERING CODE



Sample Product Code:

• PLS3-L-AS-A-3m-U-S-X-I

LoRaWAN® operated IP68 rated level sensor, frequency of AS923, Over The Air Activated, measurement range of 3m H2O, with stainless steel sensor head and Polyurethane cable and cylindrical enclosure with standard mounting thread, activated in the factory and equipped with internal antenna.

