

PLC3-L



LoRaWAN Operated IP68 Corrosive Resistant Low Power Level Transmitter for Liquid Media

- Compatible with most standard communication protocols (UDP, LwM2M, MQTT, NIDD, etc.)
- Wide range of industrial applications
- High accuracy
- Designed to meet outdoor applications
- Long-term durable performance in harsh environment
- Ultra-low power
- Suitable for Corrosive Media



TECHNICAL SPECIFICATION

Sensor

• 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
• 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	Body: Hastelloy or PVDF, Diaphragm: Hastelloy or Ceramic (Al2O3), Enclosure: ASA/ POM, O-ring: FKM/ FFKM
• Process Connection	No Process Connection (or on request)
• Weight (g)	~1300 (for 5m range)
• Protection Rate	IP68, UV Protected enclosure and sensor head



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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 (Activity, Alibaba, Cisco, Digita, Everynet, Helium, Kerlink, kpn, Lorient, 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, TagoIO, 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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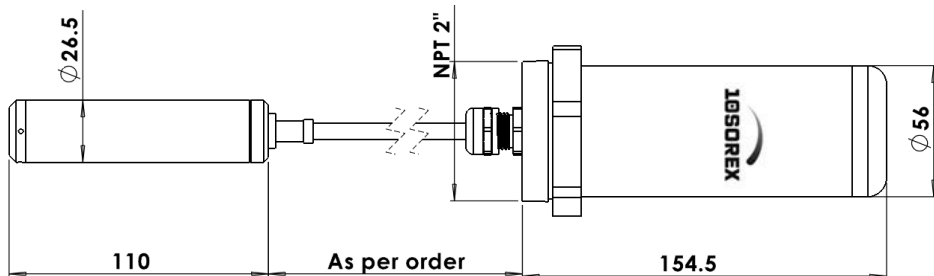
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MODEL GUIDE

Model	Option / Schematic
Standard Model 	 <p>IP68 sensor head, connected to IP68 POM enclosure without on/off switch</p>

INDUSTRIES



Water &
Wastewater



Agriculture &
Farming



Oil & Gas



Marine &
Oceanography



Mining &
Construction



Transport &
Logistics

APPLICATIONS

- Bore Hole Level
- Liquid Tanks
- Liquid Delivery Systems

- Wastewater Tank
- Flood Monitoring
- Water Resources Level



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ORDERING CODE

PLC3-L									
LoRaWAN Frequency Zone									
AS (AS923)		AUx (AU915-928) (Sub Band x)			EU (EU868)		USx (US902-928) (Sub Band x)		
LoRaWAN Activation									
A (Over the air activation - OTAA)					P (Activation By Personalization - ABP)				
Measurement Range									
1, 2, 3, 5, 10, 20, 50, 100, 200m H2O (or any other non-standard range)									
Sensor Head Material									
H: Hastelloy diaphragm and process connection					C: Ceramic diaphragm with PVDF process connection				
Other options available on request									
Cable Material									
U: Polyurethane			T: Teflon coated			Others			
Cable Length									
S: Same as measurement length					Other options available on request				
Device Activation									
X: No Switch (always on)									
Antenna Option									
E: External					I: Internal				
Options									
(On request)									
PLC3-L	AS	A	3m	H	T	S	X	I	

Sample Product Code:

- **PLC3-L-AS-A-3m-H-T-S-X-I**

LoRaWAN® corrosive resistance IP68 level sensor, frequency of AS923, Over The Air Activated, measurement range of 3m H2O, with Hastelloy sensor head and Teflon cable and cylindrical enclosure, always on and with internal antenna.



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