



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

Sens	or		
•	Range	1, 2, 3, 5, 10 (or other ranges up to 200)	m H2O
•	Accuracy (combined linearity, hysteresis, repeatability)	±0.25 (typ.)	%Span
•	Resolution	±0.01	%Span
•	Temperature Coefficient of Zero	≤±0.03	%FS/°C
•	Temperature Coefficient of Span	≤±0.03	%FS/°C
•	Long Term Stability (1 year)	≤ 0.2	%Span
•	Overload Protection	150	%FS
•	Load Cycles (Zero to Full Scale)	10+	Million
•	Storage / Operation Temperature	-20 ~ +85	°C
•	Compensated Temperature	0 ~ +60	°C
Powe	er ·		
•	Power Supply	Built-in Replaceable Lithium Battery, External Power (option)	
•	Rated Voltage	3.6	V
•	Battery Lifetime	100,000+ readings and 20,000+ transmission (More than 10 years for most applications)	
Phys	ical		
•	Materials	Body: Hastelloy or PVDF, Diaphragm: Hastelloy or Ceramic (Al2O3), Enclosure: ASA/ POM, Oring: FKM/ FFKM	
•	Process Connection	No Process Connection (or on request)	
•	Weight	~1300 (for 5m range)	g
•	Protection Rate	IP68, UV Protected enclosure and sensor head	
Com	munication		
•	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 VISUALISATION

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)

Visualisation And Data Management

 Ellenex 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).

Ellenex 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 customisation available on request



Encrypted & ultra-low power



Integratable



Dynamic alerting



Multi-tenant



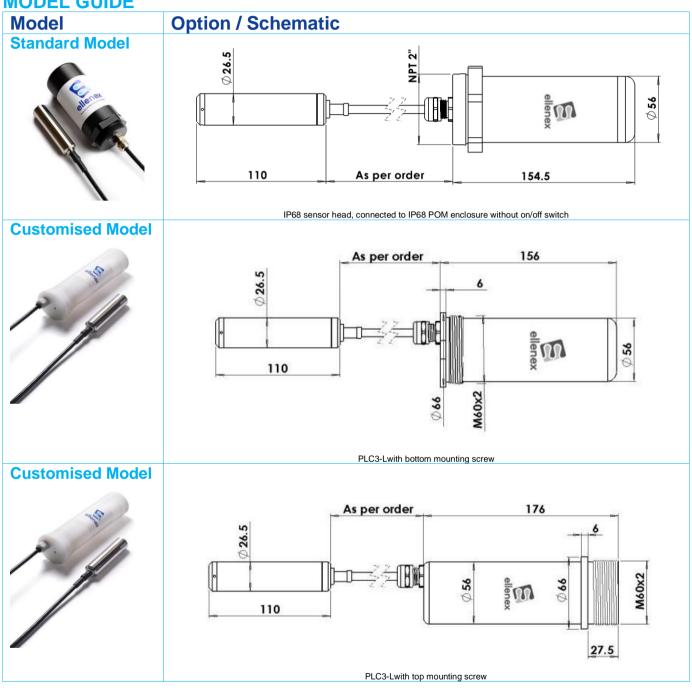
Scalable



Composable & API first



MODEL GUIDE



INDUSTRIES



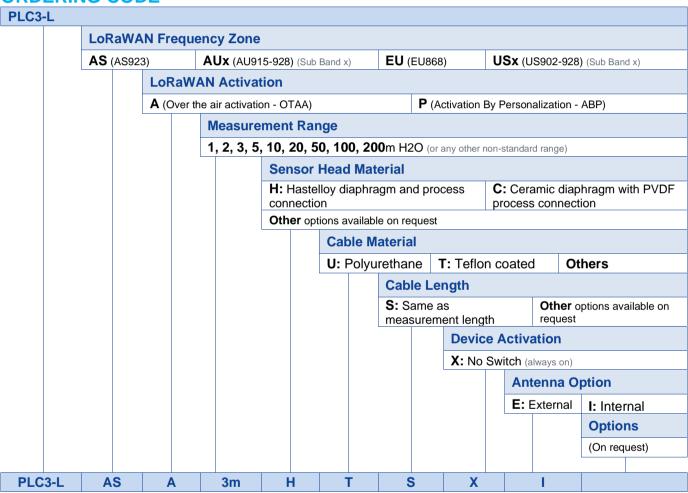


APPLICATIONS

- Bore Hole Level
- Liquid Tanks
- Liquid Delivery Systems

- Wastewater Tank
- Flood Monitoring
- Water Resources Level

ORDERING CODE



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.

All details are subject to change without prior notice © All Rights Reserved for Ellenex

Ver. 6.7-07/22

