



LoRaWAN® Operated Low Power Level Transmitter for Corrosive 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

Sensor

• Suitable for corrosive liquids



TECHNICAL SPECIFICATION

Range:	2, 5, 10 (or other ranges up to 200)	m H ₂ O
 Accuracy: (combined linearity, hysteresis, repeatability) 	±0.25 (typ.)	%Span
Resolution:	±0.01	%Span
Pressure reference:	Vented Gauge	
 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
Power		
Power Supply:	Built-in Replaceable Lithium Battery, External Power (option)	
Rated Voltage	3.6	V
Battery Lifetime:	50,000+ Readings and 10,000+ Transmission (More than 10 years for most applications)	
Physical Specification		
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:	~1,200 (for 5m range)	g
Protection Rate:	IP65 and UV protected enclosure and IP68 sens	or 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, Conditiona	al
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, GeoWAN, 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, AllThingsTalk Maker, 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



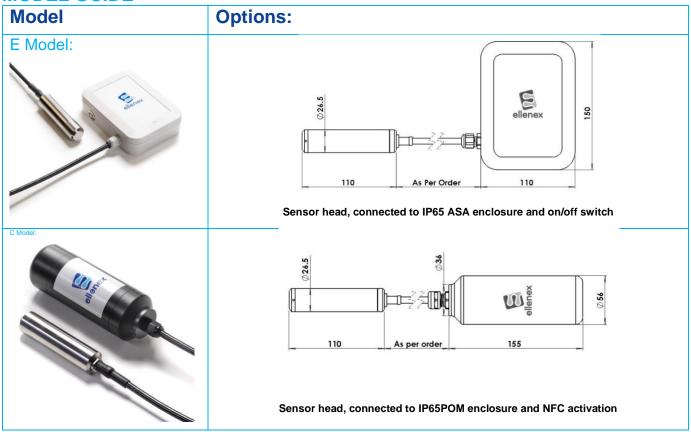
Scalable



Composable& API first



MODEL GUIDE



INDUSTRIES



Water & Wastewater



Marine& Oceanography



Transport & Logistics



Agriculture & Farming



Mining & Construction



Food & Beverage



Oil & Gas



Smart Building



Hydraulic Oil Storage

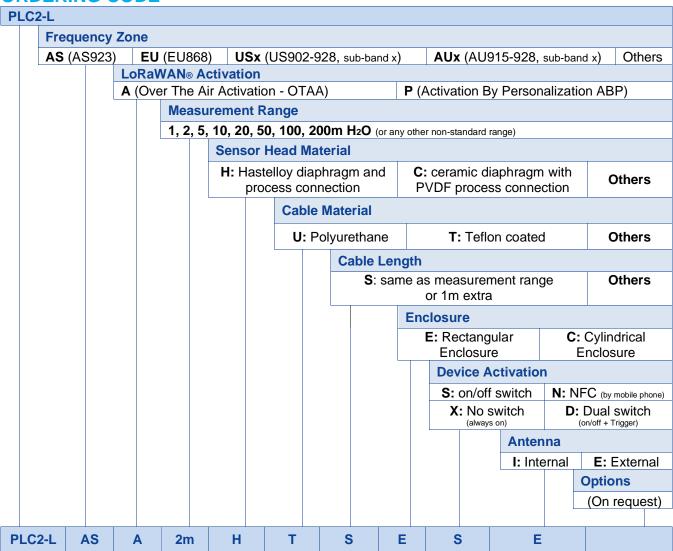
APPLICATIONS

- Chemical Tanks
- Liquid Delivery Systems
- Water Resources Level
- Flood industry

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



ORDERING CODE



Sample Product Code:

PLC2-L-AS-A-2m-H-T-S-E-S-E

Corrosive resistance level sensor operated on LoRaWAN®, frequency of AS923, measurement range of 2m H_2O , with Hastelloy sensor head and Teflon coated cable and rectangular enclosure, activated by on-off switch and external antenna.

All details are subject to change without prior notice
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