



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



Sensor		
Level Range:	2, 5, 10 (or other ranges up to 200)	m H ₂ O
 Level Accuracy: (combined linearity, hysteresis, repeatability) 	±0.25 (typ.)	%Span
Temperature Accuracy:	±2 (typ.) (temperature sensor is mounted on the back of pressure sensor and doesn't reflects the media temperature)	°C
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 Pov	ver (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:	O-ring: Viton, Body: SS304, Diaphragm: SS316, Oil: Silicon, Enclosure: ASA/POM	
 Process Connection: 	No Process Connection (or on request)	
Weight:	~1,200 (for 5m range)	g
Protection Rate:	IP65 and UV protected enclosure and IP68 senso	r 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 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



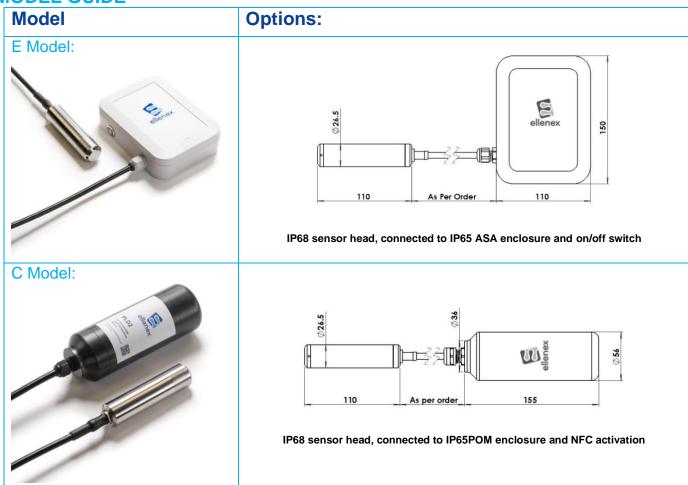
Scalable



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

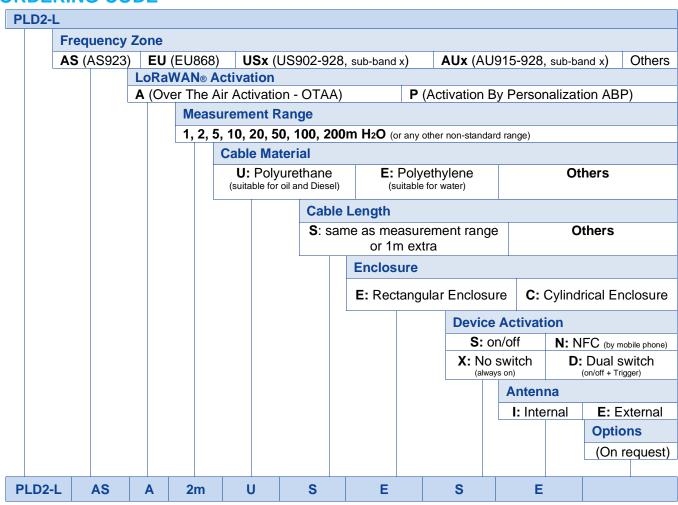
APPLICATIONS

- 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-2m-U-S-E-S-E

Level- temperature sensor operated on LoRaWAN®, frequency of AS923, measurement range of 2m H₂O, with Polyurethane 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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