



LoRaWAN Operated Low Power Level Transmitter With Narrow Sensor Head 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



TECHNICAL SPECIFICATION

	-		100

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Range	1, 2, 3, 5, 10 (or other ranges up to 200)	m H2O
Accuracy	±0.25 (typ.)	%Span
(combined linearity, hysteresis, repeatability)		
 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	100,000+ readings and 20,000+ transmission (More than 10 years for most applications)	
Physical		
Materials	O-ring: Viton, Body: SS304, Diaphragm: SS316 Oil: Silicon / Olive, Enclosure: ASA/POM	,
 Process Connection 	No Process Connection (or on request)	
 Weight 	~1200 (for 5m range)	g
Protection Rate	IP66, UV Protected enclosure and IP68 sensor	
	head	
Communication		
 LoRaWAN® Version, Class 	1.0.2revB, Class A (Class C on request)	
 LoRaWAN® Frequency Zone 	AS923, EU868, US902-928, AU915-928	
<u> </u>	(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



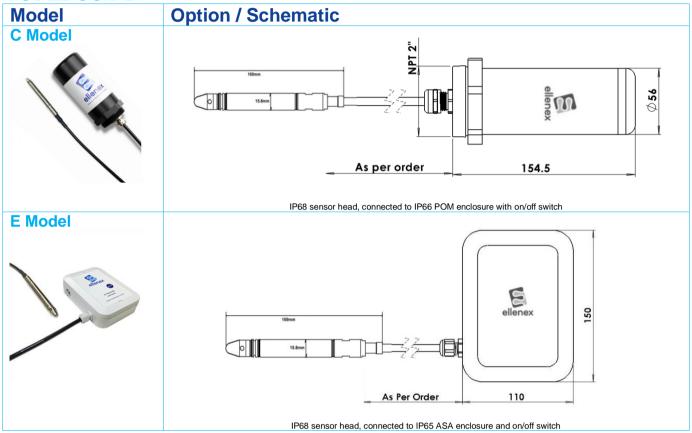
Scalable



Composable & API first



MODEL GUIDE



INDUSTRIES

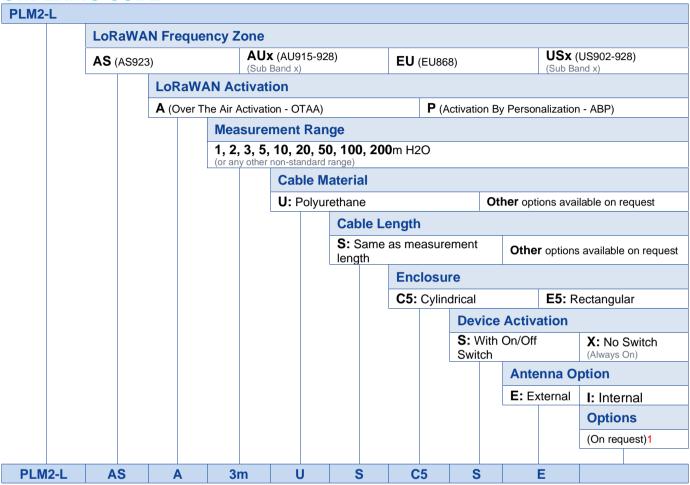


APPLICATIONS

Ground Water Level Monitoring for Narrow Wells



ORDERING CODE



Sample Product Code:

• PLM2-L-AS-A-3m-U-S-C5-S-E

LoRaWAN® level sensor with narrow head, frequency of AS923, Over The Air Activated, measurement range of 3m H₂O, with Polyurethane cable and cylindrical enclosure, activated by on-off switch and external antenna.

1) Product Options:

- **EP**: sensor with external power supply connector for 12V supply (only for E type enclosure, adaptor is not included)
- EPB: connector for 12V supply with internal battery backup (only for E type enclosure)
- HG: high-gain external antenna
- **WF**: Active WiFi module on device for communication/ firmware update through Mobile phone NFC module (only for E type enclosure)
- HCB: high-capacity battery (only for E type enclosure)

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Integrated IoT Solutions
E: sales@ellenex.com

W: www.ellenex.com

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