



LoRaWAN® Operated Low Power Flush Type Pressure Transmitter for Liquid and Gas 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 and gases compatible with SS



TECHNICAL SPECIFICATION

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•	Range	Selectable between 0~0.5 to 0~100	bar
•	Accuracy	±0.25 (typ.)	%Span
	•	(combined linearity, hysteresis, repeatability)	
•	Resolution	±0.01	%Span
•	Pressure Reference	Vented Gauge, Sealed Gauge, Absolute	
•	Temperature Coefficient of Zero	≤±0.02	%FS/°C
•	Temperature Coefficient of Span	≤±0.02	%FS/°C
•	Long Term Stability (1 year)	≤ 0.2	%Span
•	Pressure Overload	300 (range <1bar); 150 (higher range)	%FS
•	Pressure Cycles (Zero to Full Scale)	10+	Million
•	Compensated Temperature	-10 ~ +70	°C
Powe	er		
•	Power Supply	Built-in Replaceable Lithium Battery, External	
	11.3	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	O-ring: Viton, Body: SS304, Diaphragm: SS316, Oil: Silicon / Olive, Enclosure: ASA/POM	
•	Process Connection	G1/2 Male (or others on request)	
•	Weight	550	g
phys	ical		
•	Protection Rate	IP66, UV Protected	
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 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 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



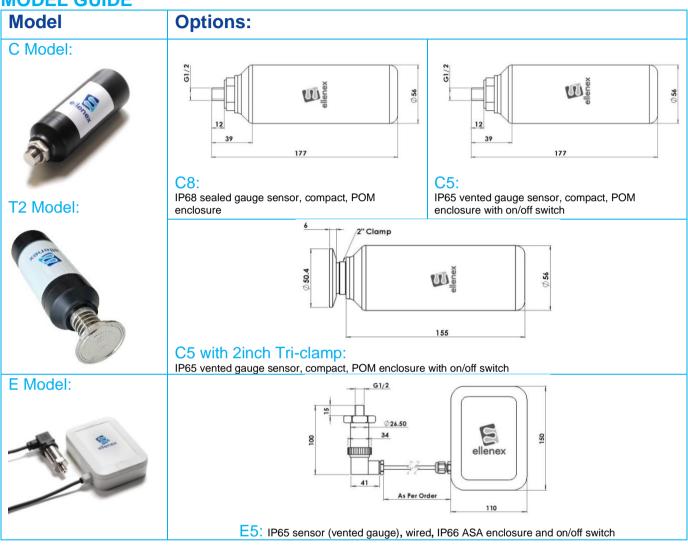
Scalable



Composable & API first



MODEL GUIDE



INDUSTRIES



Food & Beverage



Water & Environment



Agriculture & Farming



Marine & Oceanography



Transport & Logistics



Oil & Gas

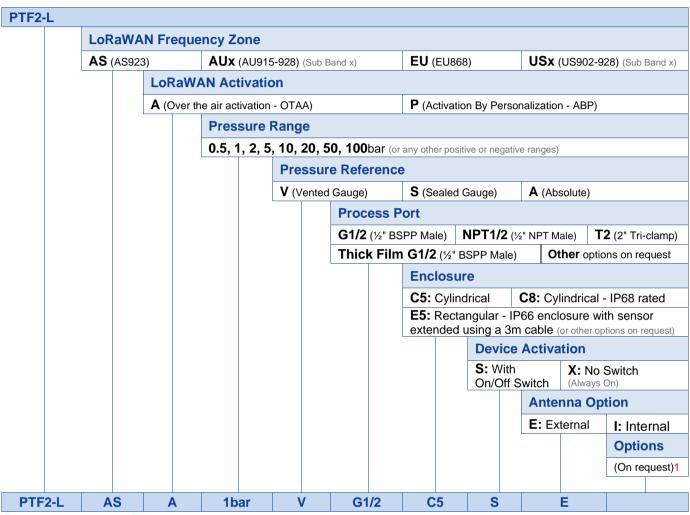
APPLICATIONS

- Food Liquid Storage Level Monitoring
- Beverage Machineries
- Water Pipeline Pressure Monitoring
- Pressurised System Monitoring
- Chiller and Cooling System Monitoring

- Pharmaceutical applications
- Agricultural equipment
- Hydrostatic level monitoring
- Spraying System Monitoring
- Air Compressor Monitoring



ORDERING CODE



Sample Product Code:

• PTF2-L-AS-A-1bar-V-G1/2-C5-S-E

LoRaWAN® flush type pressure sensor, frequency of AS923, Over The Air Activated, pressure range of 1bar vented, process connection of G1/2 with cylindrical housing (compact and IP65 rated), activated by on-off switch and equipped with 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
- HCB: high-capacity battery (only for E type enclosure)

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