



LoRaWAN® Operated Low Power 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 SS316



TECHNICAL SPECIFICATION

Range:	Selectable between 0~0.5 to 0~1000	bar
 Accuracy: (combined linearity, hysteresis, repeatability) 	±0.25 (typ.)	%Span
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
Power		
Power Supply:	Built-in Replaceable Lithium Battery, external power	er (option)
Rated Voltage	3.6	V
Battery Lifetime:	100,000+ readings and 20,000+ transmission (More than 10 years for most applications)	
Physical Specification		
Materials:	O-ring: Viton, Body: SS304, Diaphragm: SS316, Oil: Silicon / Olive, Enclosure: ASA/ POM	
Process connection:	G1/4 Male (or others on request)	
Weight:	550	g
Protection rate:	IP65 /IP68, UV protected	-
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	
T dramotor comigaration.	Locally via wireless connectivity	



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

APPLICATIONS

- Pump Performance Monitoring
- Water Pipeline Pressure Monitoring
- Pressurised System Monitoring
- Chiller and Cooling System Monitoring
- Hydraulic and Pneumatic Systems Monitoring
- Liquid Storage Level Monitoring
- Spraying System Monitoring
- Air Compressor Monitoring

Options:



INDUSTRIES



Water & Environment



Agriculture & Farming



Oil & Gas



Marine & Oceanography



Mining & Construction



Smart Building & HVAC



Transport & Logistics



Food & Beverage



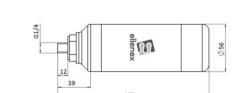
Hydraulics and Compressed Air Systems

MODEL GUIDE

Model

C Model:





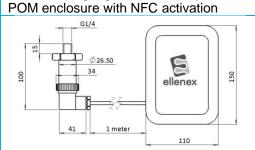
C8: IP68 sealed gauge sensor, compact,

12 39 179

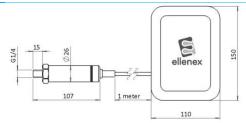
C5: IP65 vented gauge sensor, compact, POM enclosure with on/off switch

E Model:

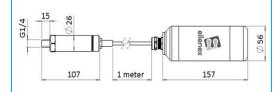




E5: IP65 sensor (vented gauge), wired, IP65 ASA enclosure and on/off switch



E7:
IP67 sensor (sealed gauge), wired, IP67
ASA enclosure and on/off switch

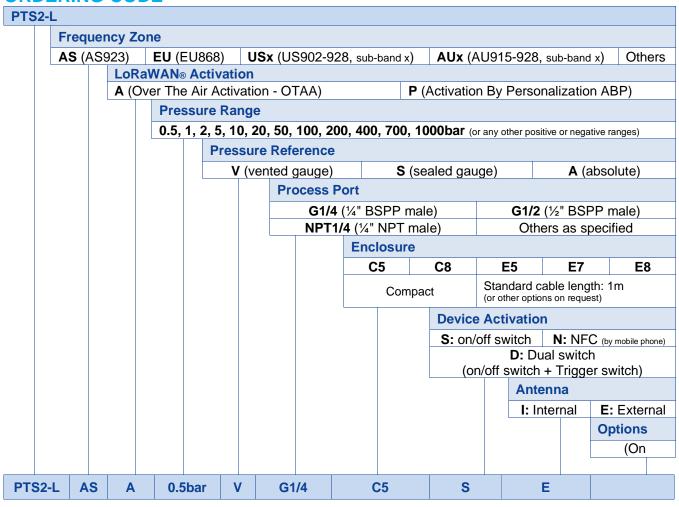


E8:

IP68 sensor (sealed gauge), wired with IP68 POM enclosure with NFC activation



ORDERING CODE



Sample Product Code:

• PTS2-L-AS-A-0.5bar-V-G1/4-C5-S-E

Pressure sensor operated on frequency AS923, over the air activated (OTAA), range of 0.5bar vented, process connection of G1/4, with C5 housing (compact and IP65 rated), activated by on-off switch and external antenna.

All details are subject to change without prior notice

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