



LoRaWAN® Operated Low Power Pressure Transmitter for Liquid and Gas Media with Built-in GPS Tracker

- Compatible with all LoRaWAN® frequencies
- · Wide range of industrial applications
- High accuracy
- Designed to meet outdoor applications
- Long-term durable performance in harsh environment
- Suitable for liquids and gases compatible with SS316



TECHNICAL SPECIFICATION

Sensor		
Pressure 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, Externa	I 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:	O-ring: Viton, Body: SS304, Diaphragm: SS3 Oil: Silicon / Olive, Enclosure: ASA/POM	316,
Process Connection:	G1/4 Male (or others on request)	
Weight:	550	g
Protection Rate:	IP65 /IP67, UV Protected	-
Geo-location/ GNSS Performance	(autonomous at open sky)	
 Features 	GPS, GLONASS, BeiDou/ Compass, Galileo, QZSS	
Sensitivity:	Cold start: -146	dBm
	 Reacquisition: -157 	
	Tracking: -157	
Time to First Fix (TTFF):	Cold start at open sky: 31	S
	Warm start: 21	
	Hot start: 2.7	
GNSS Accuracy:	< 5 (typ.)	m



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	
<u> </u>	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



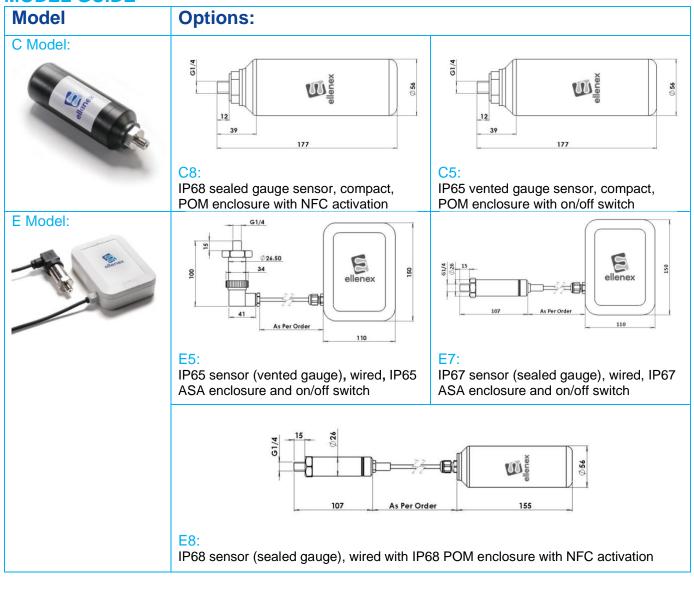
Scalable



Composable& API first



MODEL GUIDE



INDUSTRIES



Transport & Logistics



Water & Environment



Hydraulics and Compressed Air Systems



Mining & Construction



Marine& Oceanography



Food & Beverage



Agriculture & Farming



Oil & Gas



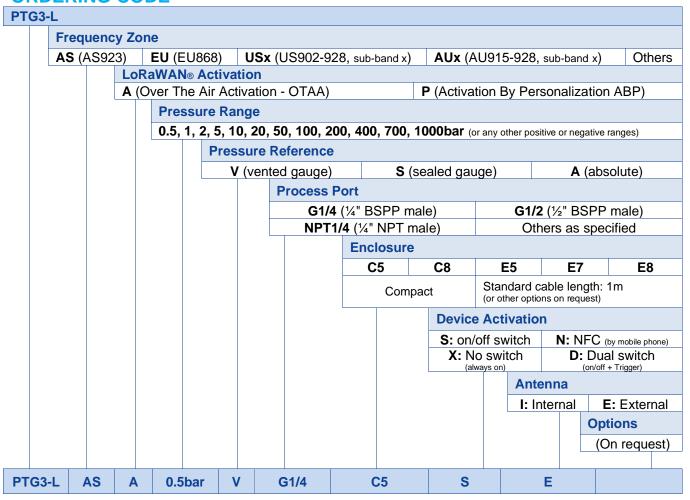
Smart Building & HVAC



APPLICATIONS

- High Value Remote Pressurised Asset
- Mobile Hydraulic Systems
- Truck Overload Monitoring
- Chiller and Cooling System Monitoring
- Water Delivery Systems
- Diesel Delivery Systems
- Gas and Liquid Delivery Systems
- Mobile Air Compressor Monitoring

ORDERING CODE



Sample Product Code:

PTG3-L-AS-A-0.5bar-V-G1/4-C5-S-E

Pressure sensor with built-in GPS operated on LoRaWAN®, frequency of AS923, Over The Air Activated, 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.

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