



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

Sensor



Range:	Selectable between 0~0.5 to 0~100	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 Pow	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 / Olive, Enclosure: ASA/POM	
Process Connection:	G1/4 Male (or others on request)	
Weight:	550	g
Protection Rate:	IP65 /IP67, 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	
	Locally via wireless connectivity	
 Firmware update: 	Locally via wireless connectivity, Over The Air	



NETWORK CONNECTION AND VISUALISATION

Network Integration

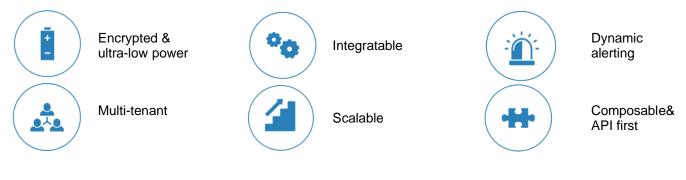
Integratable to all main networks (Actility, Alibaba, Cisco, Digita, Everynet, GeoWAN, Kerlink, kpn, Loriot, machine-Q, Objenious, Orange, Orbiwise, Proximus, Senet, Sens, Swisscom, TATA, The Things Network (TTN), TTI and any other network)

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





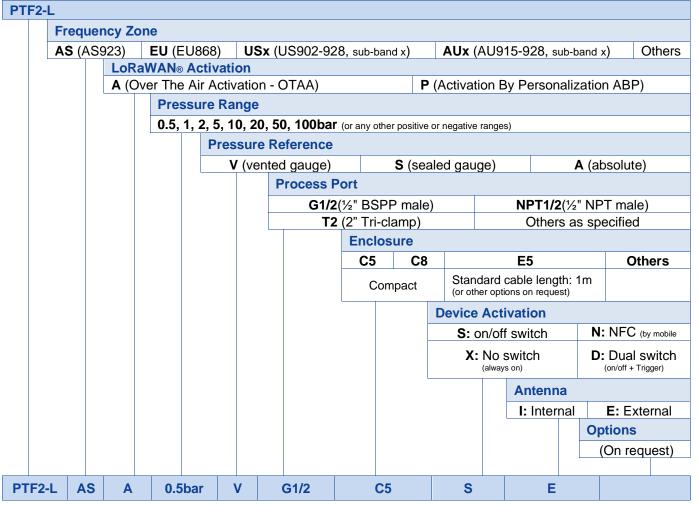
MODEL GUIDE Options: Model C Model: G1/2 G1/2 Û Wie 056 D56 12 12 39 177 177 **C8**: C5: IP68 sealed gauge sensor, compact, POM IP65 vented gauge sensor, compact, POM enclosure with NFC activation enclosure with on/off switch 2" Clamp 50.4 W 056 155 C5 with 2inch Tri-clamp: IP65 vented gauge sensor, compact, POM enclosure with on/off switch E Model: G1/2 Ø26.50 E 34 150 8 ellenex 41 As Per Order 110 E5: IP65 sensor (vented gauge), wired, IP65 ASA enclosure and on/off switch **INDUSTRIES** Agriculture & Food & Transport & **P** Farming Logistics Beverage Oil & Water & Marine& Ĵ 9 Environment Oceanography 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-0.5bar-V-G1/2-C5-S-E

Flush type Pressure sensor operated on LoRaWAN®, frequency of AS923, Over The Air Activated, range of 0.5bar vented, process connection of G1/2, with C5 housing (compact and IP65 rated), activated by on-off switch and external antenna.

All details are subject to change without prior notice © All Rights Reserved for Ellenex Pty Ltd





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Integrated IoT Solutions

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