



LoRaWAN Operated Low Power Differential 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 0~0.1 to 25	bar
 Accuracy (combined linearity, hysteresis, repeatability) 	±0.25 (typ.)	%Span
Resolution	±0.01	%Span
Pressure Reference	Differential	
 Temperature Coefficient of Zero 	≤±0.02(range > 1bar), ≤±0.04(range < 1bar)	%FS/°C
 Temperature Coefficient of Span 	≤±0.02(range > 1bar), ≤±0.04(range < 1bar)	%FS/°C
 Long Term Stability (1 year) 	≤ 0.3	%Span
Pressure Overload	200 (positive side); 100 (negative side, max 10bar)	%FS
 Pressure Cycles (Zero to Full Scale) 	10+	Million
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 	G1/4 Male (or others on request)	
Weight	550	g
Protection Rate	IP66, 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, Condition	nal





Parameter Configuration

Firmware Update

Over-the-air via LoRaWAN® downlinks Locally via wireless connectivity 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, TagoIO, ALSO AllThingsTalk, HPE IoT and any other major IoT platform).

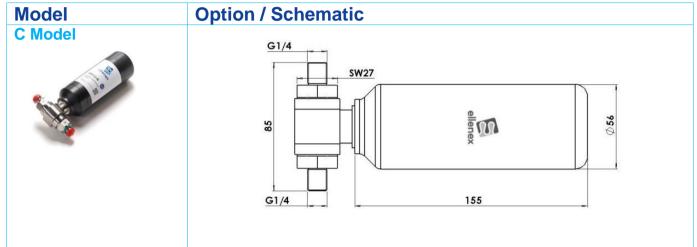
Ellenex Platform Main Features

- 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





MODEL GUIDE



INDUSTRIES

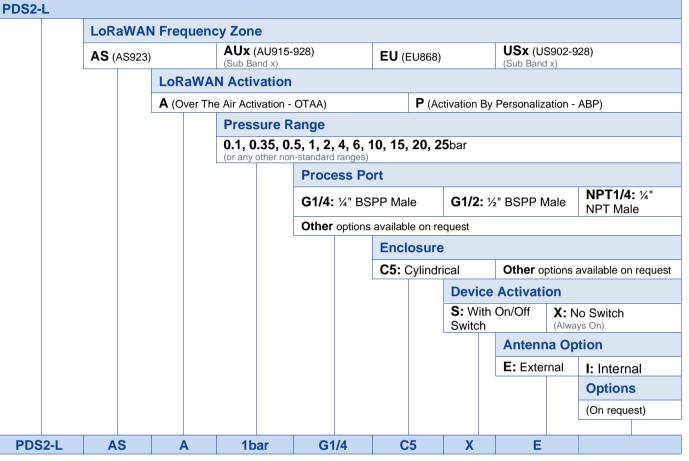


APPLICATIONS

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



ORDERING CODE



Sample Product Code:

 PDS2-L-AS-A-1bar-G1/4-C5-S-E LoRaWAN[®] differential Pressure sensor operated, frequency of AS923, Over The Air Activated, measurement range of 1bar, process connection of G1/4, without on-off switch (always on) and external antenna

All details are subject to change without prior notice $\ensuremath{\mathbb{C}}$ All Rights Reserved for Ellenex Pty Ltd

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