



### LoRaWAN® Operated IP68 Rated 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 SS



### **TECHNICAL SPECIFICATION**

0011001	Sens	or
• R	•	R

OCI 13	OI .		
•	Range	Selectable between 0~0.5 to 0~1000	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	
		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	G1/4 Male (or others on request)	
•	Weight	550	g
•	Protection Rate	IP68, 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 Type	Periodic (default), Event triggered	
•	Sampling Period	Configurable via downlink (default 4 hours)	
•	Transmission Type	Per sample (default), Event triggered,	
		Conditional	



<ul> <li>Parameter Configuration</li> </ul>	Over-the-air via LoRaWAN® downlinks	_
Ç	Locally via wireless connectivity	
<ul> <li>Firmware Update</li> </ul>	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 AllThingTalk, HPE IoT and any other major IoT platform).

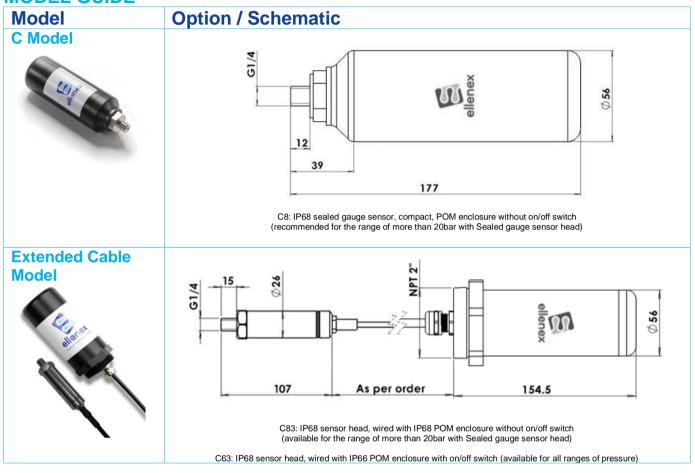
### **Ellenex Platform Main Features**

- 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**



Water & Environment



Marine & Oceanography



Transport & Logistics



Agriculture & Farming



Mining & Construction



Food & Beverage



Oil & Gas



Smart Building & HVAC



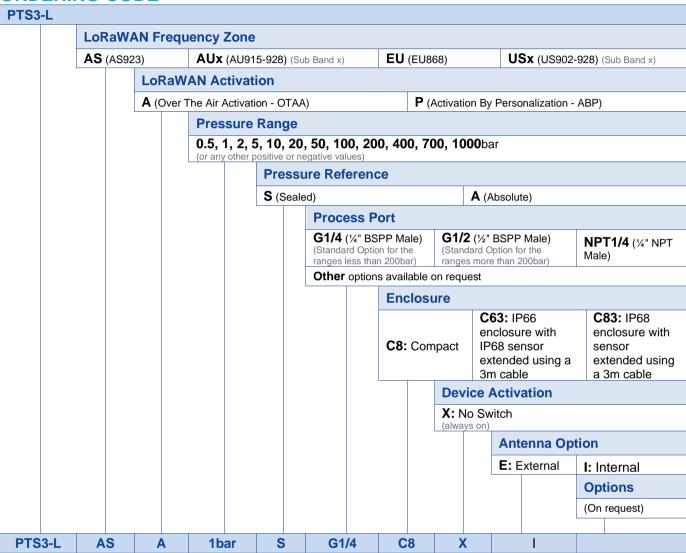
Hydraulics and Compressed Air Systems

### **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



### **ORDERING CODE**



#### Sample Product Code:

• PTS3-L-AS-A-1bar-S-G1/4-C8-X-I

LoRaWAN® pressure sensor, frequency of AS923, Over The Air Activated, measurement range of 1bar sealed, process connection of G1/4 with cylindrical housing (compact and IP68 rated), always on and equipped with internal antenna.

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



Ver. 6.7-07/22