

PTF2-N



NB IoT – Cat-M1 Operated Low Power Flush Type Pressure Transmitter for Liquid and Gas Media

- Compatible with most standard communication Protocols (UDP, LwM2M, MQTT, NIDD, etc.)
- · 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

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Range: (bar)	Selectable between 0~0.5 to 0~100		
 Accuracy: (combined linearity, hysteresis, repeatability) (%Span) 	±0.25 (typ.)		
Resolution: (%Span)	±0.01		
Pressure Reference:	Vented Gauge, Sealed Gauge, Absolute		
 Temperature Coefficient of Zero: (%FS/°C) 	≤±0.02		
 Temperature Coefficient of Span: (%FS/°C) 	≤±0.02		
 Long Term Stability (1 year): (%Span) 	≤ 0.2		
Pressure Overload: (%FS)	300 (range <1bar); 150 (higher range)		
 Pressure Cycles (Zero to Full Scale): (Million) 	10+		
Compensated Temperature: (°C)	-10 ~ +70		
Power			

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Power Supply:	Built-in Replaceable Lithium Battery, External Power (option)	
 Rated Voltage (V) 	3.6	
Battery Lifetime:	50,000+ readings and 10,000+ transmission (With UDP protocol/ 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: G1/2 Male (or others on request) Weight: (g) Protection Rate: (-) IP66 / IP68, UV Protected 	i nysicai opecinication	
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4FF Nano-SIM, from any Network Provider		
Over The Air, Locally via Wireless Connectivity		
Configurable via downlink (default 4 hours)		
Power Saving: < 5uA, Transmission: < 220mA		
Cat-NB1 (NB-IoT) Cat-M1		
B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B26/B28 and B39		
Rates: Cat-M1: 375Kbps (DL)/375Kbps (UL) NB-IoT: 32Kbps (DL)/70Kbps (UL)		
23dBm		
Cat-M1: -107dBm NB-loT: -113dBm		
Internal (Default)/ External (customised options available)		
 Attach without PDN (Packet Data Network) Support for IPV6 SMS communication Mobility support (Cat-M1 only) 		

NETWORK CONNECTION AND VISUALIZATION

Network Integration

Pre-configured or configurable to all main narrow band networks (3, A1, AT&T, China Mobile, DU, Etisalat, KPN, M1 Singapore, Optus, Orange, Proximus, Spark, Sprint, Swisscom, Telefonica, Telstra, T-Mobile, Verizon, Vodafone, 1NCE, Emnify and any other network)

Visualization and Data Management

10Sorex 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).

10Sorex Platform Main Features

- Encrypted ultra-low power communication protocol
- Integration APIs for enterprise systems
- Data export and import
- · Multi-channel, rule-based alerting
- Transmission condition configuration

- Advanced device inventory
- Multi-tenant role-based access control
- White-label platform for enterprises on private account
- Sampling and transmission interval configuration
- Other configurations and customization available on request



Encrypted & ultra-low power



Integratable



Dynamic alerting



Multi-tenant



Scalable



Composable& API first



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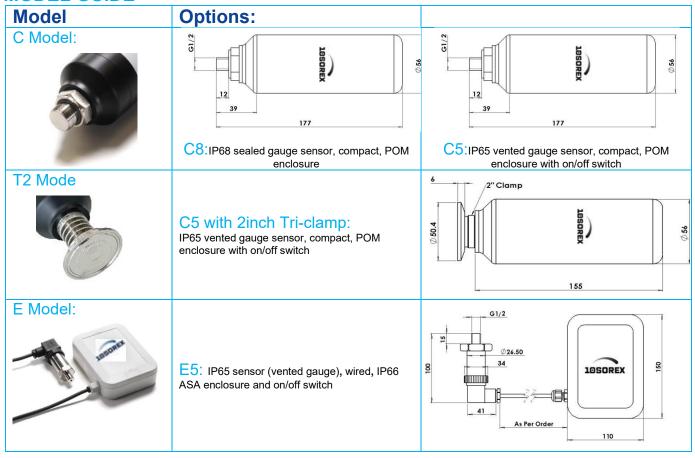


+1 (424) 400-4964



PTF2-N

MODEL GUIDE



INDUSTRIES



Food & Beverage



Water & Environment



Marine&

Farming



Oceanography



Transport & Logistics



Oil & Gas

APPLICATIONS

- Food Liquid Storage Level Monitoring
- Beverage machineries
- Water Pipeline Pressure Monitoring
- Pressurized System Monitoring
- Chiller and Cooling System Monitoring

- Pharmaceutical applications
- Agricultural equipment
- Hydrostatic level Monitoring
- Spraying System Monitoring
- Air Compressor Monitoring



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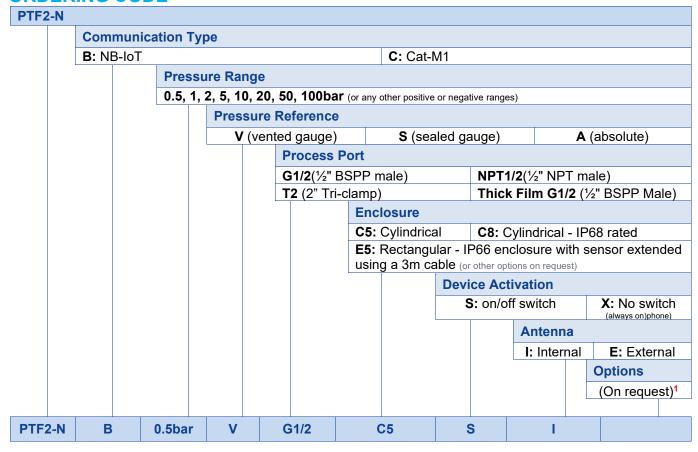


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10SOREX

PTF2-N

ORDERING CODE



Sample Product Code:

• PTF2-N-B-0.5bar-V-G1/2-C5-S-I

NB IoT flush type Pressure sensor, range of 0.5bar vented, process connection of G1/2, with C5 housing (compact and IP65 rated), activated by on-off switch and internal antenna.

1) Product Options:

- **EP**: sensor with external power supply connector for 12V supply (only for E type enclosure, adaptor is not included)
- EPB: connector for 12V supply with internal battery backup (only for E type enclosure)
- HG: high-gain external antenna
- HCB: high-capacity battery (only for E type enclosure)

