



NB IoT – Cat-M1 Operated Low Power Pressure Transmitter for Liquid and Gas Media with Built-in Temperature Sensor

- 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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Selectable between 0~0.5 to 0~1000		
±0.25 (typ.) (combined linearity, hysteresis, repeatability)		
±2 (typ.) (temperature sensor is mounted on the back of pressure sensor and doesn't reflects the media temperature)		
±0.01		
Vented Gauge, Sealed Gauge, Absolute		
≤±0.02		
≤±0.02		
≤ 0.2		
300 (range <1bar); 150 (higher range)		
10+		
-10 ~ +70		
Built-in Replaceable Lithium Battery, External Power (option)		
3.6		
50,000+ readings and 10,000+ transmission (With UDP protocol/ More than 10 years for most applications)		
O-ring: Viton, Body: SS304, Diaphragm: SS316,		
Oil: Silicon / Olive, Enclosure: ASA/POM		
G1/4 Male (or others on request)		
550		
IP66 /IP68, UV Protected		





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 SIM Card Type 	4FF Nano-SIM, from any Network Provider		
Firmware Update:	Over The Air, Locally via Wireless Connectivity		
 Sampling Period: 	Configurable via downlink (default 4 hours)		
Power Consumption:	Power Saving: < 5uA, Transmission: < 220mA		
 Communication Standards (option of back support by GPRS) 	Cat-NB1 (NB-IoT) Cat-M1		
 Communication Bands 	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B26/B28 and B39		
Data Rates:	Cat-M1: 375Kbps (DL)/375Kbps (UL) NB-IoT: 32Kbps (DL)/70Kbps (UL)		
TX Power:	23dBm		
Min Receiver Sensitivity:	Cat-M1: -107dBm NB-loT: -113dBm		
Antenna:	Internal (Default)/ External (customised options available)		
Optional Features:	 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, TagoIO, 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



www.10sorex.com



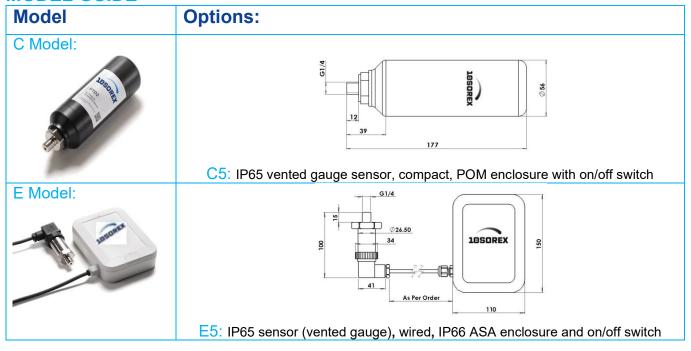
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MODEL GUIDE



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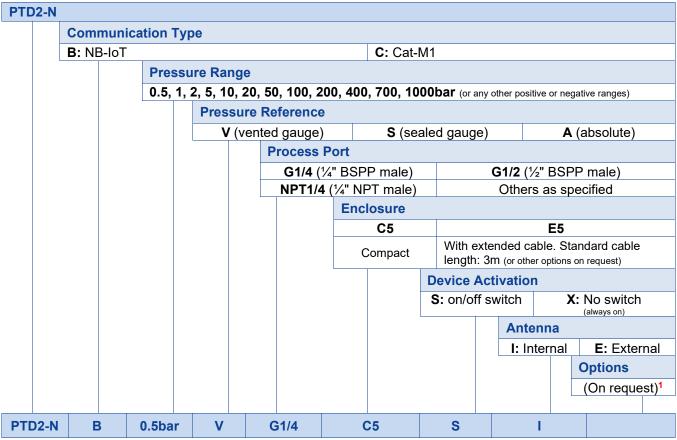
APPLICATIONS

- Pump Performance Monitoring
- Water Pipeline Pressure Monitoring
- Pressurized 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:

• PTD2-N-B-0.5bar-V-G1/4-C5-S-I

NB IoT pressure-temperature sensor, range of 0.5bar vented, process connection of G1/4, 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
- **WF**: Active WiFi module on device for communication/ firmware update through Mobile phone NFC module (only for E type enclosure)
- **HCB**: high-capacity battery (only for E type enclosure)

