



NB IoT – Cat-M1 Operated IP68 Rated Low Power 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 0~1000		
 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			
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:	G1/4 Male (or others on request)		
Weight: (g)	550		
Protection Rate: (-)	IP68, UV Protected		





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4FF Nano-SIM, from any Network Provider		
Over The Air, Locally via Serial Port		
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		
Cat-M1: 375Kbps (DL)/375Kbps (UL) NB-IoT: 32Kbps (DL)/70Kbps (UL)		
23dBm		
Cat-M1: -107dBm NB-IoT: -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, 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



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MODEL GUIDE

Compact Model: C8: IP68 sealed gauge sensor, compact, POM enclosure (available for the range of more than 20bar with Sealed gauge sensor head) Extended cable Model: C83: IP68 sensor head, wired with IP68 POM enclosure without on/off switch (Available for the range of more than 20bar with Sealed gauge sensor head) C63: IP68 sensor head, wired with IP66 POM enclosure without on/off switch (Available for all ranges of pressure)

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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



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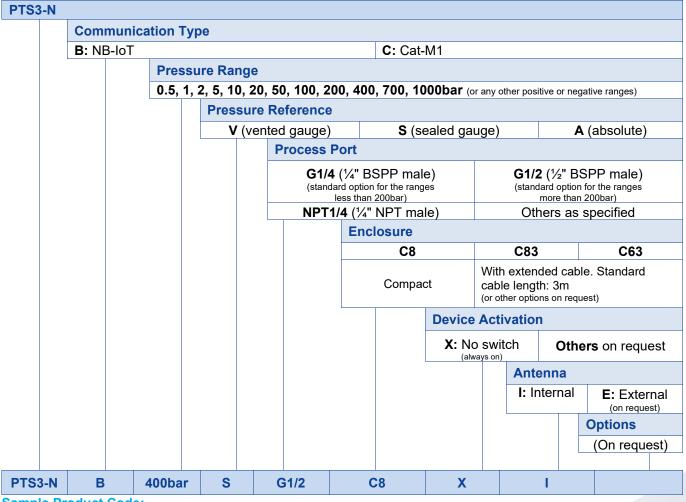
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ORDERING CODE



Sample Product Code:

• PTS3-N-B-400bar-S-G1/2-C8-S-I

NB IoT pressure sensor, range of 400bar, sealed, process connection of G1/2, with C8 housing (compact and IP68 rated), without on-off switch and internal antenna.

