10SOREX

PLS3-N



NB IoT – Cat-M1 Operated IP68 Low Power Level Transmitter for Liquid 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 compatible with SS and Hastelloy



TECHNICAL SPECIFICATION

Sensor	_
• Range: (m H2O)	1, 2, 5, 10 (or other ranges up to 200)
 Accuracy: (combined linearity, hysteresis, repeatability) (%Span) 	±0.25 (typ.)
Resolution: (%Span)	±0.01
Pressure reference:	Sealed Gauge (with Built-in Atmospheric Pressure Sensor)
Temperature Coefficient of Zero: (%FS/°C)	≤±0.03
 Temperature Coefficient of Span: (%FS/°C) 	≤±0.03
 Long term stability (1 year): (%Span) 	≤ 0.2
 Overload Protection: (%FS) 	150
 Load Cycles (Zero to Full Scale): (Million) 	10+
 Storage / Operation Temperature: (°C) 	-20 ~ +85
Compensated temperature: (°C)	0 ~ 60
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		

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iviateriais:	O-ning. Viton, Body. 55304, Diaphragin. 55316,	
	Oil: Silicon, Enclosure: POM	
Process Connection:	No Process Connection (or on request)	
Weight: (g)	~1,300 (for 3m range)	
Protection Rate:	IP68 and UV protected enclosure and sensor head	



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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 	Cat-NB1 (NB-IoT)
(option of back support by GPRS)	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-IoT: -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, 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



www.10sorex.com



Sales@10sorex.com



+1 (424) 400-4964



PLS3-N

MODEL GUIDE

Standard Model: Standard Model: 110 As per order 154.5 IP6o sensor neau, connecteu to IP68 POM enclosure with on/off switch

INDUSTRIES



Water & Wastewater



Marine& Oceanography



Agriculture & Farming



Mining & Construction



Oil & Gas



Transport & Logistics

APPLICATIONS

- Bore Hole Level
- Liquid Tanks
- Liquid Delivery Systems

- Wastewater Tank
- Flood Monitoring
- Water Resources Level



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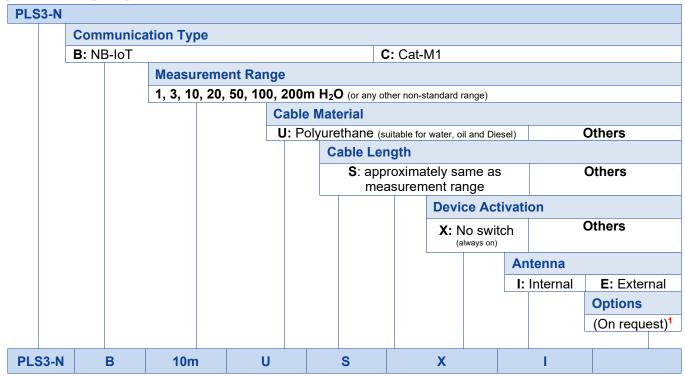


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PLS3-N

ORDERING CODE



Sample Product Code:

• PLS3-N-B-10m-U-S-X-I

IP68 Level sensor operated on NB-IoT, measurement range of 10m H_2O , with stainless steel sensor head and Polyurethane cable, standard cable length, enclosure with bottom mounting thread, activated in the factory and equipped with internal antenna.

