10SOREX

PLM2-N



NB IoT – Cat-M1 Operated Low Power Level Transmitter With Narrow Sensor Head 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



TECHNICAL SPECIFICATION

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 Range: (m H2O) 	1, 2, 3, 5, 10 (or other ranges up to 200)		
 Accuracy: (combined linearity, hysteresis, repeatability) (%Span) 	±0.25 (typ.)		
Resolution: (%Span)	±0.01		
 Pressure reference: 	Vented Gauge		
 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 of applications)		
Physical Specification			
Materials:	O-ring: Viton, Body: SS304, Diaphragm: SS316, Oil: Silicon, Enclosure: ASA/POM		
Process Connection:	No Process Connection (or on request)		
Weight: (g)	~1,300 (for 3m range)		
Protection Rate:	IP66 and UV protected enclosure and IP68 sensor head		





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Communication

 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-loT) 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



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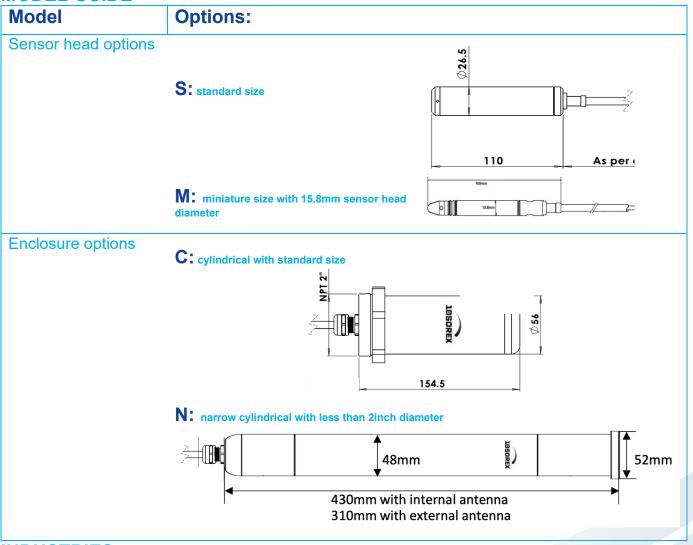


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PLM2-N

MODEL GUIDE



INDUSTRIES



Water & Wastewater



Marine& Oceanography



Agriculture & Farming



Mining & Construction



Oil & Gas



Food & Beverage

APPLICATION

Ground Water Level Monitoring for Narrow Wells



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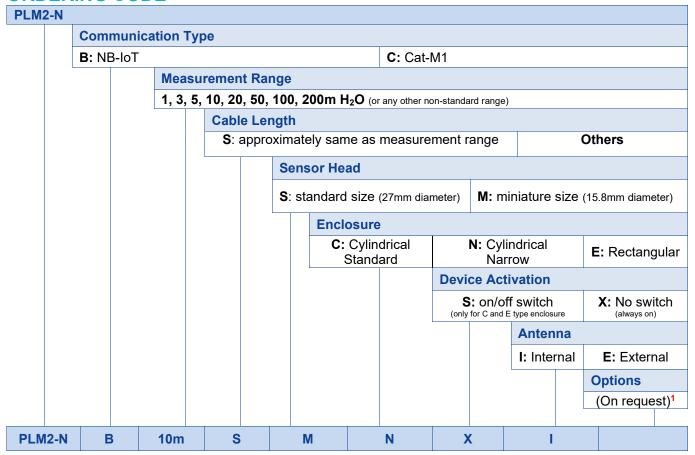


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PLM2-N

ORDERING CODE



Sample Product Code:

PLM2-N-B-10m-S-S-N-S-I

NB IoT level sensor with Narrow Head, measurement range of 10m H_2O , with 10m Polyurethane cable and narrow cylindrical enclosure, without on-off switch and operated with 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 and N type enclosure)

