



NB IoT – Cat-M1 Operated IP68 Low Power Floating Level Transmitter for Water Resource Management

- Compatible with most standard communication Protocols (UDP, LwM2M, MQTT, NIDD, etc.)
- · Wide range of industrial applications
- · High accuracy and Ultra-low power
- Designed to meet outdoor applications
- Long-term durable performance in harsh environment
- Designed for Water Resource Level and Volume Measurement



TECHNICAL SPECIFICATION

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•	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 and floating housing)
•	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					
Materials:	O-rings: Viton, Sensor Head: SS304, Diaphragm: SS316, Oil: Silicon, Enclosure: POM and Compressed Plastic				

Process Connection:	No Process Connection (or on request)
Weight: (g)	~2,500 (for 10m range)
Protection Rate:	IP68 and UV protected enclosure





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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
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



www.10sorex.com



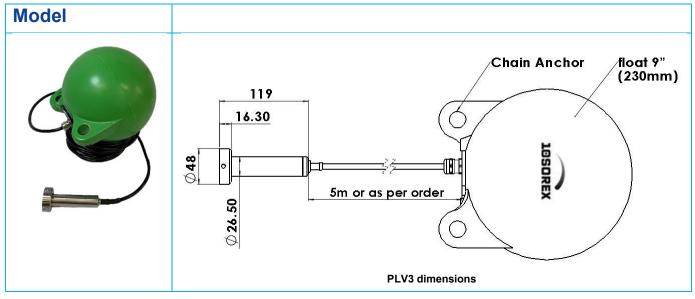
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MODEL GUIDE



INDUSTRIES



Water & Wastewater



Marine& Oceanography



Agriculture & Farming



Mining & Construction



Environmental Monitoring



Water Delivery

APPLICATIONS

- Water Resources Level
- Dam Level
- Water Supply

- Lake Level
- Hydrology Research
- Bush Fire Management



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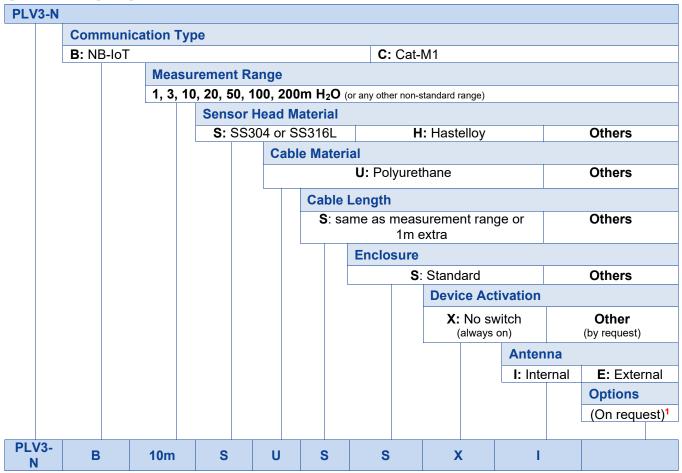
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ORDERING CODE



Sample Product Code:

• PLV3-N-B-10m-S-U-S-S-X-I

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

