10SOREX

PLG2-N



NB IoT – Cat-M1 Operated Low Power Level Transmitter for Liquid Media with Built-in GPS Tracker

- 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

C	_	n	_	_	
J	u		S	U	

• 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:	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
 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-ring: Viton, Body: SS304, Diaphragm: SS316, Oil: Silicon, Enclosure: ASA/POM

No Process Connection (or on request)

IP66 and UV protected enclosure and IP68 sensor head

~1,300 (for 3m range)



Process Connection:

Protection Rate:

Weight: (g)



PLG2-N

Geo-location/ GNSS Performanc			
 Features 	GPS, GLONASS, BeiDou/ Compass, Galileo, QZSS		
Sensitivity: (dBm)	Cold start: -146		
	 Reacquisition: -157 		
	Tracking: -157		
Time to First Fix (TTFF): (s)	 Cold start at open sky: 31 		
	Warm start: 21		
	Hot start: 2.7		
 GNSS Accuracy: (m) 	< 5 (typ.)		
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 	Cat-NB1 (NB-IoT)		
	Cat-M1		
	(option of back support by GPRS)		
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)		
TV D	NB-IoT: 32Kbps (DL)/70Kbps (UL) 23dBm		
• TX Power:			
 Min Receiver Sensitivity: 	Cat-M1: -107dBm NB-IoT: -113dBm		
Antenna:	Internal (Default)/ External (customised options available)		
Optional Features:	Attach without PDN (Packet Data Network)		
Optional Foatales.	Support for IPV6		
	SMS communication		
	Mobility support (Cat-M1 only)		
	wiobility support (Cat-ivi i office)		

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).





PLG2-N

10Sorex Platform Main Features

- Encrypted ultra-low power communication protocol
- Advanced device inventory
- Integration APIs for enterprise systems
- Multi-tenant role-based access control
- Data export and import
- White-label platform for enterprise runs on private account
- Variable alarm setting for high and low thresholds and multi-channel alerting
- Sampling and transmission interval configuration
- Transmission condition configuration
- Other configurations and customization available on request



Encrypted & ultra-low power



Integratable



Dynamic alerting



Multi-tenant

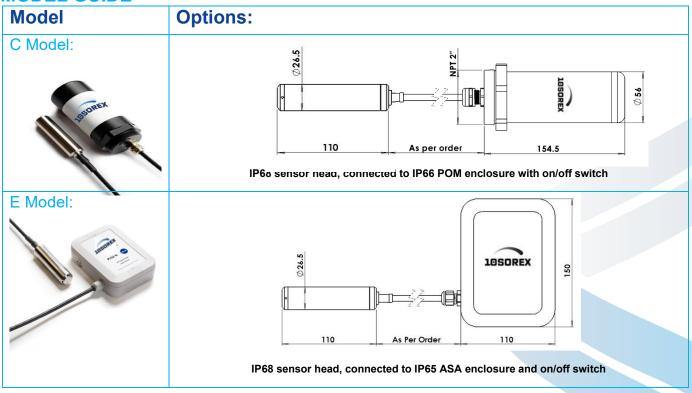


Scalable



Composable& API first

MODEL GUIDE







PLG2-N

INDUSTRIES



Transport & Logistics



Water & Environment



Hydraulics and Compressed Air Systems



Mining & Construction



Marine& Oceanography



Food & Beverage



Agriculture & Farming



Oil & Gas



Smart Building & HVAC

APPLICATIONS

- Mobile Hydraulic Systems
- Truck Overload Monitoring
- Mobile Air Compressor Monitoring

- Water Delivery Systems
- Diesel Delivery Systems
- Gas and Liquid Delivery Systems



www.10sorex.com



Sales@10sorex.com

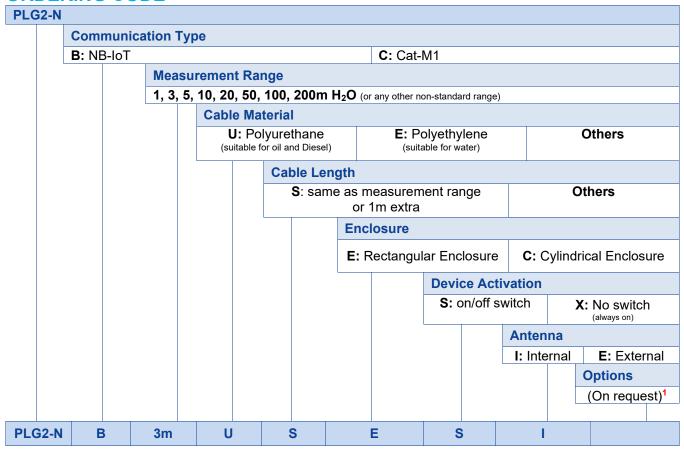


+1 (424) 400-4964

10SOREX

PLG2-N

ORDERING CODE



Sample Product Code:

• PLG2-N-B-3m-U-S-E-S-I

NB IoT level sensor with built-in GPS, measurement range of 3m H₂O, with Polyurethane cable and rectangular enclosure, 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)

