10SOREX

PLD2-N



NB IoT – Cat-M1 Operated Low Power Level Transmitter for Liquid with Built-in Temperature Sensor

- 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

Level Range: (m H2O)

~		n	e	$\boldsymbol{\cap}$	
-	_		-	u	

	, -, - (J , -, -, -, -, -, -, -, -, -, -, -, -,				
Level Accuracy: (combined linearity, hysteresis, repeatability) (%Span)	±0.25 (typ.)				
Temperature Accuracy: (°C)	±2 (typ.) (temperature sensor is mounted on the back of pressure sensor and doesn't reflects the media temperature)				
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 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)				





IP66 and UV protected enclosure and IP68 sensor head

Protection Rate:



PLD2-N

_							
~	^	m	m	n	ati		
	u	, ,		 	a	u	

 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



www.10sorex.com



Sales@10sorex.com

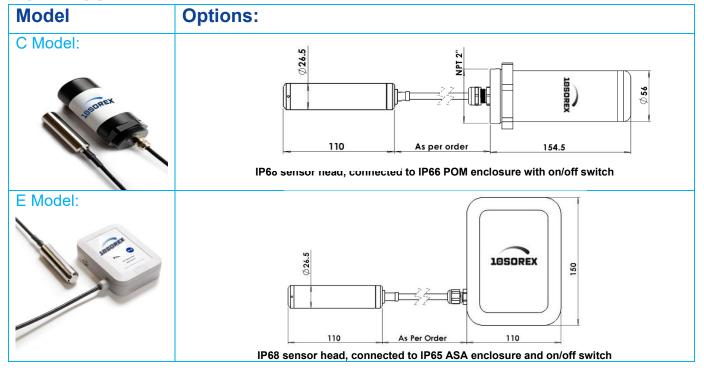


+1 (424) 400-4964



PLD2-N

MODEL GUIDE



INDUSTRIES



Water & Wastewater



Marine& Oceanography



Transport & Logistics



Agriculture & Farming



Mining & Construction



Food & Beverage



Oil & Gas



Smart Building



Hydraulic Oil Storage

APPLICATIONS

- Water Tank
- Chemical Tanks
- Liquid Delivery Systems
- Water Resources Level
- Flood Monitoring

- Diesel Tank
- Liquid Storage
- Hydraulic Containers
- Wastewater Tank
- Water Trough



www.10sorex.com



Sales@10sorex.com

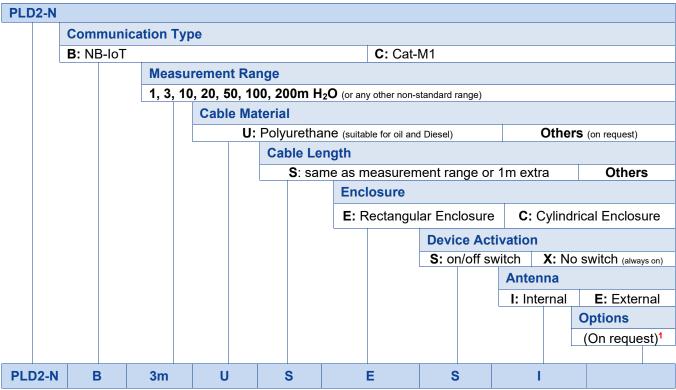


+1 (424) 400-4964



PLD2-N

ORDERING CODE



Sample Product Code:

PLD2-N-B-3m-U-S-E-S-I

NB IoT level- temperature sensor, measurement range of $3m\ H_2O$, 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)

