1050REX

PLC3-N



NB IoT – Cat-M1 Operated IP68 Corrosive Resistant 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 Corrosive Media

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	
Materials:	Body: Hastelloy or PVDF, Diaphragm: Hastelloy or Ceramic (Al2O3), Enclosure: POM, O-ring: FKM/ FFKM
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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Communication

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



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PLC3-N

MODEL GUIDE

Model **Options:** Standard Model: ₾26.5 110 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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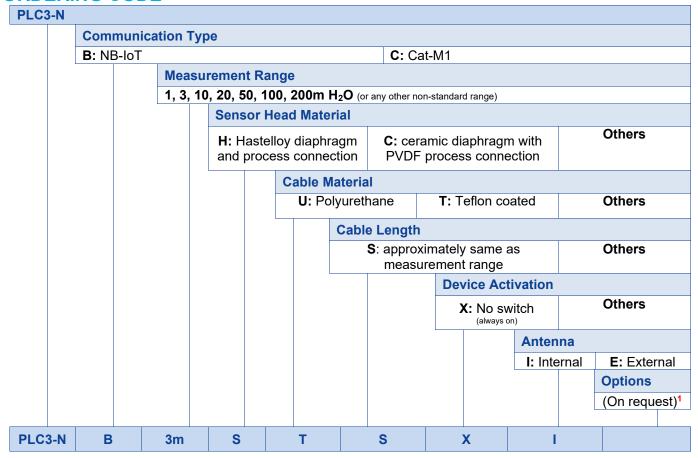


Sales@10sorex.com



PLC3-N

ORDERING CODE



Sample Product Code:

• PLC3-N-B-3m-S-T-S-X-I

NB IoT corrosive resistance IP68 level sensor, measurement range of 3m H₂O, with Hastelloy sensor head and Teflon coated cable and rectangular enclosure, activated by on-off switch and internal antenna.

