10SOREX

TTS3-N



NB IoT – Cat-M1 Operated IP68 Low Power Temperature Transmitter for Liquid and Gas 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 and gases compatible with SS



TECHNICAL SPECIFICATION

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OCHSOL			
Range: (°C)	-50°C to +250°C (sensing element)		
	-10 ~ +70 (electronic housing)		
Accuracy: (°C)	IEC 60751		
• , ,	 Class B (+ /- 0.12% or +/-0.3°C at 0°C) 		
	 Class A (+ /- 0.15°C at 0°C), 		
	• Class1/3DIN (+ /- 0.08°C at 0°C)		
	 Class1/10DIN (+ /- 0.03°C at 0°C) Other accuracies available on request 		
Sensing Element:	Pt100		
Consing Element.	Pt1000		
	(or other sensors available on request)		
Long term stability (1 year): (%Span)	≤ 0.2		
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:	Sheath: SS316 (3mm or 6mm OD), Silicone Rubber Cable		
Process connection:	G1/4 Male (only for type G)		
Weight: (g)	~450		
Protection rate: (-)	IP68, UV protected		
()	(other options available upon request)		
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)		





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	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) 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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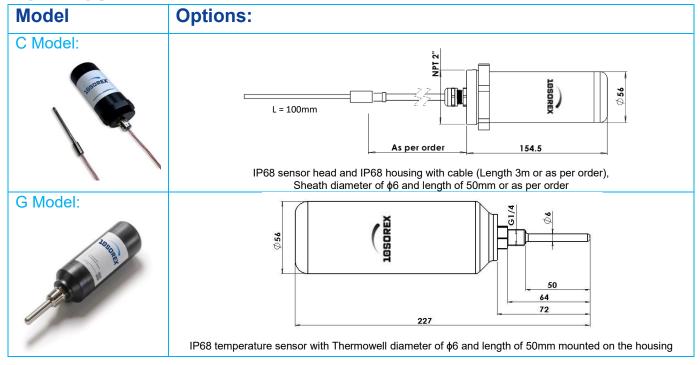


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TTS3-N

MODEL GUIDE



INDUSTRIES



Food & Beverage



Transport & Logistics



Oil & Gas



Marine& Oceanography



Mining & Construction



Hospitals, Restaurants &Smart Building



Water & Environment



Agriculture & Farming



General Industrial Applications

APPLICATIONS

- Food Delivery Systems
- Cold rooms Temperature Monitoring
- Pump Performance Monitoring
- Water Pipeline Temperature Monitoring
- Fridges and Hot Chambers
- Hydraulic and Pneumatic Systems Monitoring
- Water and Liquid Temperature Monitoring
- Chiller and Cooling System Monitoring



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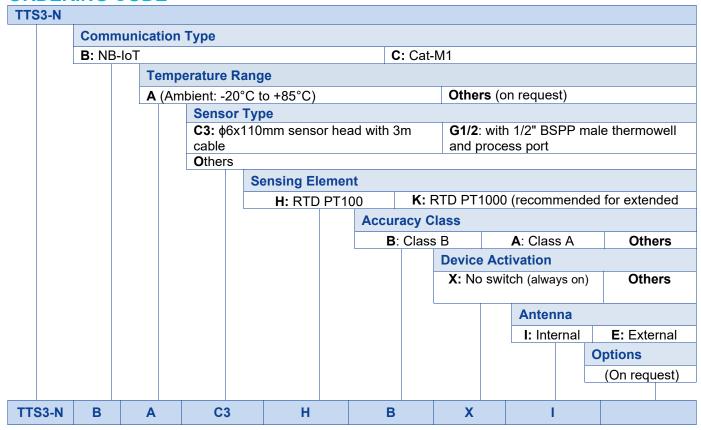
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TTS3-N

ORDERING CODE



Sample Product Code:

• TTS3-N-B-A-C3-H-B-X-I

NB IoT IP68 temperature sensor, standard B-class RTD PT100 for ambient temperature range, with 3m cable, without on/off switch and with internal antenna.

