10SOREX

TTS3-L



LoRaWAN® Operated IP68 Low Power Temperature Transmitter for Liquid and Gas Media

- Compatible with all LoRaWAN® frequencies
- 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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Range (°C)	-50°C to +250°C (or other ranges)			
	-10 ~ +70 (electronic housing)			
 Accuracy (°C) 	• Class B (±0.12% or ±0.3°C at 0°C)			
IEC 60751	• Class A (±0.15°C at 0°C)			
	 Class 1/3DIN (±0.08°C at 0°C) Class 1/10DIN (±0.03°C at 0°C) other accuracies available on request 			
Sensing Element	Pt100			
• Sensing Element	Pt1000 (or other sensors available on request)			
Long Term Stability (%Span)	≤ 0.2 (1 year)			
Power	- 0.2 (1 <i>jour)</i>			
	Duilt in Donlogophia Lithium Dottom, Eutomal Douge (antion)			
Power Supply	Built-in Replaceable Lithium Battery, External Power (option)			
Rated Voltage (V)	3.6			
Battery Lifetime	100,000+ readings and 20,000+ transmission (More than 10 years for most applications)			
Physical				
 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				
 LoRaWAN® Version, Class 	1.0.2revB, Class A (Class C on request)			
 LoRaWAN® Frequency Zone 	AS923, EU868, US902-928, AU915-928 (other zones available on request)			
 LoRaWAN® Activation Type 	OTA (default), ABP			
 Sampling Type 	Periodic (default), Event triggered			
 Sampling Period 	Configurable via downlink (default 4 hours)			
 Transmission Type 	Per sample (default), Event triggered, Conditional			
 Parameter Configuration 	eter Configuration Over-the-air via LoRaWAN® downlinks Locally via wireless connectivity			
Firmware Update	Locally via Wireless Connectivity, Over The Air			





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NETWORK CONNECTION AND VISUALIZATION

Network Integration

 Integratable to all main networks (Actility, Alibaba, Cisco, Digita, Everynet, Helium, Kerlink, kpn, Loriot, machine-Q, Objenious, Orange, Orbiwise, Proximus, Senet, Sens, Swisscom, TATA, The Things Network (TTN), TTI 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, ALSO AllThingsTalk, HPE IoT and any other major IoT platform).

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



www.10sorex.com



Sales@10sorex.com

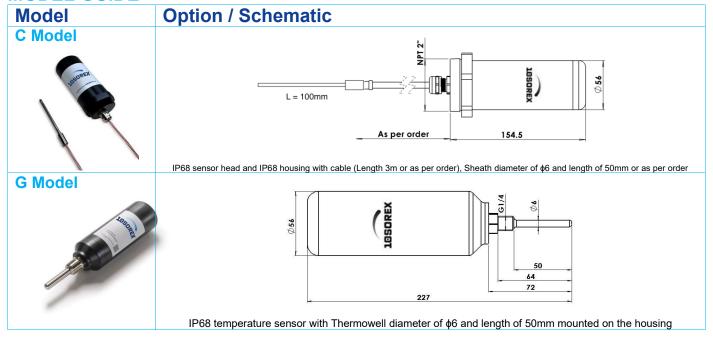


+1 (424) 400-4964



TTS3-L

MODEL GUIDE



INDUSTRIES



APPLICATIONS

- Food Delivery Systems
- Cold rooms Temperature Monitoring
- Pump Performance Monitoring
- Water Pipeline Temperature Monitoring

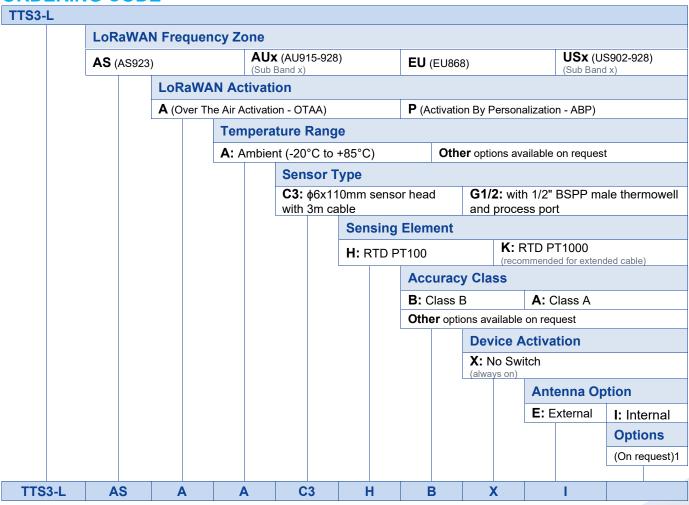
- Fridges and Hot Chambers
- Hydraulic and Pneumatic Systems Monitoring
- Water and Liquid Temperature Monitoring
- Chiller and Cooling System Monitoring





TTS3-L

ORDERING CODE



Sample Product Code:

• TTS3-L-AS-A-A-C3-H-B-X-I

LoRaWAN® IP68 temperature sensor, frequency of AS923, Over The Air Activated, standard B class RTD PT 100 for ambient temperature range, with 3m cable and cylindrical housing, without on-off switch and equipped with internal antenna.

