TTS2-L Spec-sheet



ellenex

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LoRaWAN[®] Operated 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

Sensor

20112			
•	Range	-50°C to +250°C (or other ranges up to 200)	°C
		-10 ~ +70 (electronic housing)	
•	Accuracy	IEC 60751	°C
		• Class B (±0.12% or ±0.3°C at 0°C)	
		• 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)	
	Concing Floment	other accuracies available on request Pt100	
•	Sensing Element	Pt100 Pt1000	
		(or other sensors available on request)	
•	Long Term Stability (1 year)	≤ 0.2	%Span
Powe		- 0	70 0 pan
•	Power Supply	Built-in Replaceable Lithium Battery, External	
		Power (option)	
•	Rated Voltage	3.6	V
•	Battery Lifetime	100,000+ readings and 20,000+ transmission	
	,	(More than 10 years for most applications)	
hys	ical		
•	Materials	Sheath: SS316 (3mm or 6mm OD), Silicone	
		Rubber Cable	
•	Process connection	G1/4 Male (only for type G)	
•	Weight	~450	g
•	Protection Rate	IP66, UV Protected	
		(other options available upon request)	
Com	munication		
•	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		
•	Parameter Configuration		
		Locally via wireless connectivity	
		Locally via Wireless Connectivity, Over The Air	





NETWORK CONNECTION AND VISUALISATION

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)

Visualisation And Data Management

• Ellenex 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, TagoIO, AllThingsTalk, HPE IoT and any other major IoT platform).

Ellenex 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 customisation available on request



Encrypted & ultra-low power



Multi-tenant



D.q

Scalable

Integratable

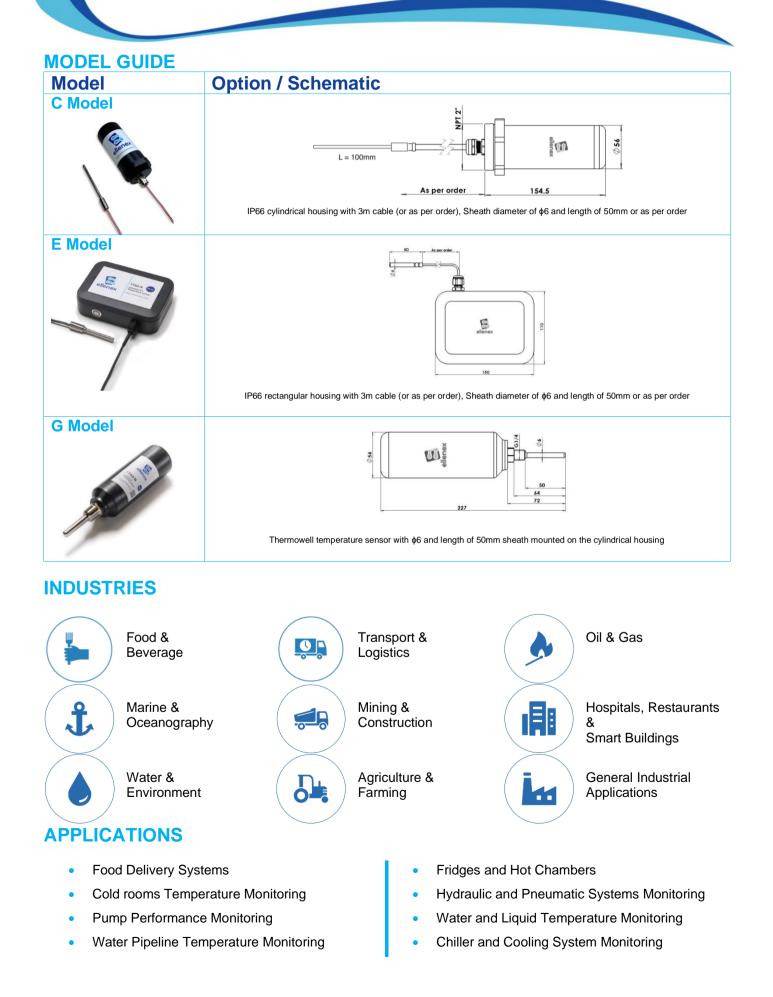


Composable & API first

Dynamic alerting

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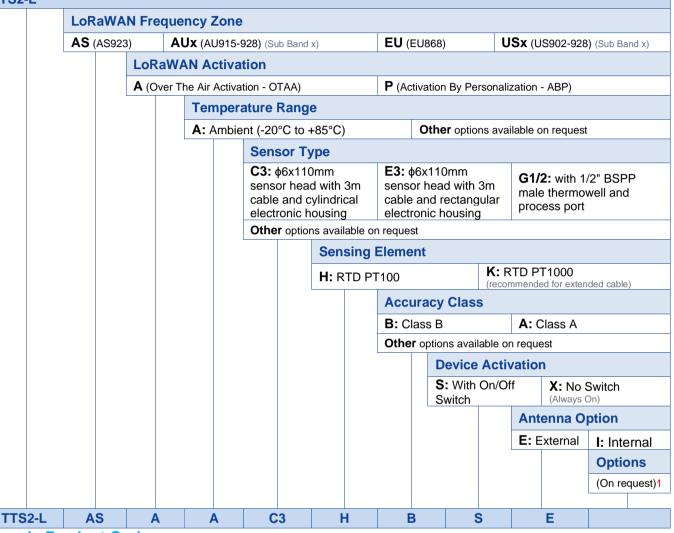


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ORDERING CODE





Sample Product Code:

• TTS2-L-AS-A-A-C3-H-B-S-E

LoRaWAN[®] 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, activated by on-off switch and equipped with external 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)

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