

TEMP TEMP2S

Distributed by:



Measure and monitor temperature evolutions

Devices versions:

- 1 ambient + 1 remote probe
- 2 remote probes



ALERT

Alert on high / low temperature
threshold overrun alarm



MEASURE

- Measure temperatures
- Identify temperature losses

Additional features:

- Periodic and/or event mode
- Autonomy optimization: historization
- Accessibility of the data: redundancy
- Alarm repetition in case of a persistent event
- Error or Default management: hardware error, configuration inconsistency and low battery alert
- Timestamp of the frame (LoRaWAN)
- Network Quality Test at start-up (LoRaWAN)



Monitor the temperature of the domestic hot water at the start and end of the circuit.



Check the temperature of a storage area for sensitive products.



Monitor the temperature of the road surface in order to optimise the triggering of winter services.

TECHNICAL SPECIFICATIONS



TEMP : LoRaWAN ARF8180ARA | Sigfox ARF8181BCA
TEMP2S : LoRaWAN ARF8180ARB | Sigfox ARF8181BCB

Mechanical specifications

Weight	TEMP: 148 g - 1 remote probe (battery included) TEMP2S: 185g - 2 remote probes (battery included)
Dimensions	132 x 62 x 34 mm
Enclosure	IP68, EMERGE™ PC 8731HH grey resin (casing), EMERGE™ PC 8430-15 transparent resin (sole)
Mounting	DIN Rail, Tube, Wall, Collar
Probe length	2 meters

Operating conditions

Temperature	-25°C / +70°C
Humidity	0 to 85% RH (non-condensing)

Device Power Supply

Battery Type	1 connectorized battery pack or External 5V Power supply
Expected Battery Life	For one frame every 2 hours (12 frames/day) : - Sigfox: 4.3 years (scan every 30 minutes) - LoRaWAN SF12 or SF7: > 10 years (polling every 10 minutes)

Device configuration

Local device configuration	IoT Configurator
Remote device configuration	Downlink via the network or via the KARE platform
Configuration and Firmware update over-the-air	KARE+ compatible
Security	PIN/PUK code protection

Radio/Wireless

Supported regions	LoRaWAN EU863-870 / Sigfox RC1
Wireless Security	AES-128 data encryption (LoRaWAN only)
Class	LoRaWAN: Class A and C Sigfox: Class 0
Supported LoRaWAN features	OTAA, ABP, ADR, adaptive channel setup
RF transmit power	14 dBm
Sensitivity	-136 dBm LoRaWAN @SF12 -122 dBm Sigfox

Regulations and certifications

Standard	Directive 2014/53/UE (RED)
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SENSOR Ambient temperature		SENSOR Remote Temperature	
Sensor technology	NTC	Sensor technology	NTC
Range	-25°C to +70°C	Range	-30°C to +105°C
Precision [0°C/+60°C]	+/-0.2°C	Precision [0°C/+60°C]	+/-0.2°C
Precision [-25°C/0°C]	+/-0.5°C	Precision [-30°C/0°C]	+/-0.5°C
		Precision [+60°C/+105°C]	+/-2°C



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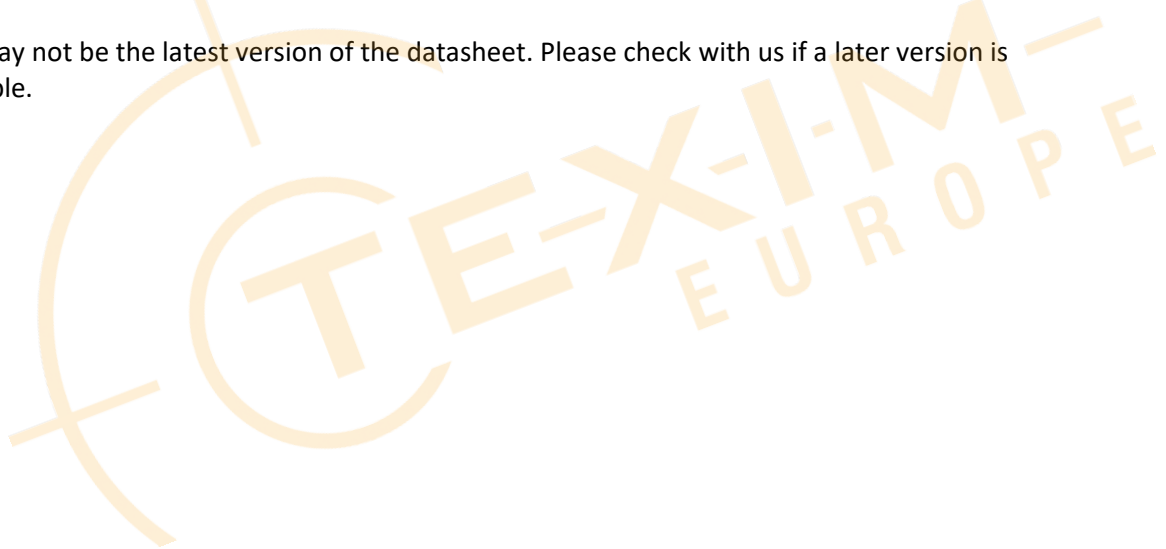
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





Headquarters & Warehouse

Elektrostraat 17
NL-7483 PG Haaksbergen
The Netherlands

T: +31 (0)53 573 33 33
E: info@texim-europe.com
Homepage: www.texim-europe.com



The Netherlands

Elektrostraat 17
NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33
E: nl@texim-europe.com



Belgium

Zuiderlaan 14, box 10
B-1731 Zellik

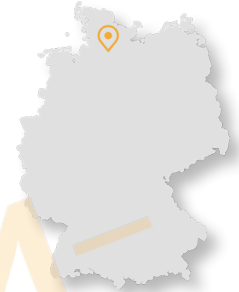
T: +32 (0)2 462 01 00
E: belgium@texim-europe.com



UK & Ireland

St Mary's House, Church Lane
Carlton Le Moorland
Lincoln LN5 9HS

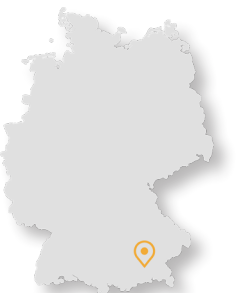
T: +44 (0)1522 789 555
E: uk@texim-europe.com



Germany - North

Bahnhofstrasse 92
D-25451 Quickborn

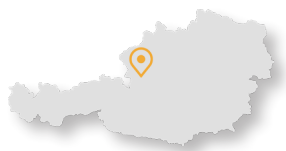
T: +49 (0)4106 627 07-0
E: germany@texim-europe.com



Germany - South

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: muenchen@texim-europe.com



Austria

Warwitzstrasse 9
A-5020 Salzburg

T: +43 (0)662 216 026
E: austria@texim-europe.com



Nordic

Søndre Jagtvej 12
DK-2970 Hørsholm

T: +45 88 20 26 30
E: nordic@texim-europe.com



Italy

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: italy@texim-europe.com