

TS 300

Wireless temperature sensor.

Hassle-free temperature sensing for industrial cold chain monitoring applications.



ORBCOMM's TS 300 wireless temperature sensor helps ensure the integrity of temperature-sensitive cargoes, such as refrigerated or frozen foods and pharmaceuticals, as they move along the supply chain.

Used with the ORBCOMM® AG 400, the sensor provides both general cargo area temperature and multi-zone monitoring in refrigerated trailers and trucks independent of the refrigeration unit.

Precision and Compliance

Temperature sensors allow truck and trailer temperature to be measured independent of the refrigeration unit. Sensors can be placed in multiple compartments of the truck/trailer to achieve more precise temperature monitoring and meet regulatory compliance.

Hassle-free installation and maintenance

Wireless connectivity makes installation quick and easy since wiring is not required. The wireless sensor eliminates maintenance and repair costs as there are no wires that might be damaged during day to day operations that would necessitate repair or replacement of the sensor. Low operational costs make the wireless sensor ideal for deployment across large fleets.

Ruggedized

The IP67-rated TS 300 is built to withstand harsh operating environments that include dust, humidity, water, shock and vibration, for reliable reporting in all conditions.

Long service life

The TS 300 delivers a minimum of 5 years of reporting without the need for maintenance or replacement.

Wireless temperature monitoring

Independent of refrigeration unit

Helps maintain cold chain compliance

Ruggedized, versatile and accurate

Part of a comprehensive solution

Quick installation

Long battery life

**Compatibility**

- AG 400

Environmental

- Operating Temperature: -40 °C to +85 °C
- Dust and water ingress: IP67
- Vibration: SAE J1455 (Sec 4.10.4.2 figures 6-8);
- Shock: MIL-STD-810G (Sec 516.6 procedure I, Section 2.3.2c)

Accuracy

- ± 0.5 °C from -40 °C to 85 °C

Communications

- Bluetooth Low Energy (BLE) version 4.0
- Low power, short range protocol using 2.4GHz band

Certification and compliance

- CE Mark:
 - » EN 301 48917
 - » EN 301 489-1
 - » EN 62638

- FCC regulation 47 CFR 15
- Industry Canada:
 - » ICES-003
- RoHS
- EN 12830:2018-10¹ (Pending)
- WELMEC 7.2¹
- GAMP 5¹

1 – When used in combination with the MX2

Power

- Lithium battery with 1000 mAh capacity
- Up to 5 years of operation

Mechanical

- Dimensions: 102 mm x 64 mm x 15 mm
- Weight: 97 g

Ordering Codes

Part Number: ST100643-001

Although we strive to ensure accuracy in all of our published specifications, actual field performance can vary depending on a variety of environmental, installation and usage factors, as well as third-party factors such as cellular providers. The specifications listed are approximations, and do not constitute binding statements or modify the terms and conditions of purchase or lease including, but not limited to, product operational limitations and warranties. All specifications are subject to change without notice. Please check www.orbcomm.com to ensure you have the latest version of these specifications.

CALL: 1.800.ORBCOMM EMAIL: SALES@ORBCOMM.COM VISIT: WWW.ORBCOMM.COM

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