ORBCOMM®

WHERE IoT POWERS ASSET INTELLIGENCE™

TS 310

Reduce installation costs and deploy with minimal disruption.

ORBCOMM's wireless temperature sensor meets the industry's highest standards for the transport, storage and distribution of temperature-sensitive goods, while overcoming the high implementation costs and inflexible deployment of wired sensors. Compatible with the RT 8000 series of cold chain monitoring and temperature recording devices, the sensor provides both general cargo area temperature and multi-zone monitoring in refrigerated trailers and trucks—independent of the refrigeration unit.

EN 12830
Ensure that temperatures are accurately maintained at specific levels and recorded for continuous control, verification and validation. The TS 310 complies with Europe's EN 12830 standard which specifies the technical and functional characteristics of temperature recorders for the transport, storage and distribution of temperature-sensitive goods.

Hassle-free installation
No wires means it's easy to install, maintain and repair. Reposition or move from vehicle to vehicle, making deployment ideal for large fleets.

Long service life
Up to five years of reporting without having to change batteries.

- **Wireless temperature monitoring**
- **Easy installation for rapid mass deployment**
- **Connects to RT 8000 series devices**
- **Ruggedized, versatile and accurate**
- **Easy configuration with dedicated mobile app**
- **Long battery life**

Reliable connectivity

Using advanced Bluetooth BLE 5.1 technology to retrieve data, sensors can be placed in multiple compartments of the trailer to achieve more precise temperature monitoring. Low operational costs make wireless sensors economical to run.

Ruggedized

The IP69k-rated TS 310 is built to withstand harsh operating environments that include severe operating temperatures, dust, humidity, water, shock and vibration, including high pressure spraydowns when deep cleaning cargo areas.

Specifications

Compatibility
- RT 8000/8110/8120
- Euroscan MX2 (with AG 400)
- ST 9100 series

Environmental *
- Operating temperature: -40 °C to +85 °C
- Dust and water ingress: IP69k
- Vibration: SAE J1455
- Shock: MIL-STD-810H

Accuracy
- ± 0.5 °C from -40 °C to 85 °C

Communications
- Bluetooth Low Energy (BLE) version 5.1
- Low power, short range protocol using 2.4GHz band

Power
- Lithium battery with 1000 mAh capacity
- A minimum life expectancy of 5 years

Certification and compliance *
- EN12830:2018 (Class 0.5)[1]
- CE Mark RED 2014/53/EU
- FCC regulation 47 CFR 15
- Industry Canada:
  - ▶ *ICES-003*
- RoHS
- WELMEC 7.2[1]
- GAMP 5[1]

Mechanical
- Dimensions: 136 mm x 64 mm x 21 mm
- Weight: 120 g

Ordering codes
Part numbers:
- Device: ST100643-002
- Optional mounting bracket: ST101451-001

1 When used in combination with the Euroscan MX2

* Pending for RT 8 series

For more information on our solutions or to book a demo, email us: **info@ORBCOMM.com**

Visit our website **www.ORBCOMM.com**

ORBCOMM is a global leader in industrial IoT, delivering visibility, intelligence and efficiency to the world's most critical operations. With 30 years of innovation and more than 2.4 million connected devices, we transform data into actionable insights, driving greater efficiency, safety, resilience and sustainability. Serving customers that include the world's largest shipping lines, over-the-road trucking fleets, cold-chain transportation fleets and a global network of IoT solution provider partners, ORBCOMM is where IoT powers asset intelligence.

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