Euroscan Temperature Sensors

Ruggedized temperature sensors for industrial cold chain monitoring solutions

The Euroscan temperature sensors seamlessly integrate into ORBCOMM’s cold chain monitoring solutions to help ensure the integrity of temperature-sensitive cargoes such as refrigerated or frozen foods and pharmaceuticals as they move along the supply chain. The IP68-rated sensors operate in extreme temperatures and environments.

Our temperature sensors are compatible with the MX1, MX2 and X3 series Euroscan temperature recorders, the RT 6000+, PT 6000, XT 4760 and the Blue Tree BT 300 and BT 500.

Sensor accuracy/settings

- 0.1 Degrees Celsius*
  Part Number: 009.000.5106 (6 meters). 009.000.5115 (15 meters). 009.000.5122 (22 meters)

- 0.2 Degrees Celsius*
  Part Number: 009.000.5006 (6 meters). 009.000.5015 (15 meters). 009.000.5022 (22 meters)

- 0.2 Degrees Celsius With Connector*
  Part Number: 009.000.5103 (3 meters)

Reaction time/thermal response time

- \( t_{0.63} = 15 \text{ s} \)
- \( t_{0.9} = 30 \text{ s} \)

Sensor type

- Overmolded – double insulation

*R: Accuracy is defined for 0 to 70°C.
Stability

- Dry heat 100°C, 1000 hours: +/-1% of initial value
- Damp heat 95%, 40°C, 1000 hours: +/-1% of initial value
- Cold 0°C, 1000 hours: +/-1%
- Temperature shock -30°C/Amb/+90°C, 100 cycles: +/-1% of initial value

Operating temperatures

- -50 to +70°C

Maximum temperatures

- From -50°C to 105°C

IP rating

- IP68*

Weight

- 3 meters: 35 g
- 6 meters long: 66 g
- 15 meters long: 163 g
- 22 meters long: 237 g

Regulation

- EN12830 compatible

*Range can depend on product and firmware.

*IP rating applies to the sensor head.