X3 series

Temperature recorders for cold chain compliance.

Industry-leading temperature monitoring and compliance for the transportation of temperature-controlled cargo.

CERTIFIED & AUDITED
GAMP® 5
ORBCOMM MX2 & X3

ORBCOMM's temperature recorders enable temperature monitoring and proof of compliance from origin to destination for food, pharmaceuticals and other temperature-controlled cargo.

As part of a comprehensive cold chain telematics solution that includes sensors, connectivity and the ColdChainView web application, the X3 series delivers printed or electronic temperature records, real-time event-based alerts, advanced reports and analytics, geofences and more.

Available in two configurations:
TX3: rugged case for installation outdoors
RX3: compact for installation inside the cabin

Regulatory compliance
ORBCOMM's X3 series meets the highest requirements of local and international regulations and guidelines for the transportation of food andn pharmaceuticals— GAMP 5 (Good Automated Manufacturing Practice established by the pharmaceutical industry), HACCP (food safety), EN12830:2018 Class 0.5, CE, RED and PTCRB.

Feature-rich
The temperature recorders feature an integrated printer, a large display, an easy-to-use interface, multi-language support, a built-in accelerometer and more. In addition to on-demand printed temperature records, The RX3 gives drivers access to status reports right from the cabin.

Access real-time and historical reports and run analytics on asset performance, utilization and status to increase operational visibility, enable more efficient business planning and gain a better return on investment. Receive and manage temperature, intrusion, geofence and maintenance alerts in real-time through the built-in display or the ColdChainView application to ensure timely corrective measures are taken.

The X3 series supports up to 6 sensors, making it ideal for multicompartment trailers with different temperature requirements. ORBCOMM's X3 series is compatible with refrigerated units from most manufacturers.

Proof of cold chain compliance

Integrated printer

Easy to use and install

Event-based alarms

Multi-temperature compartment support

Compatible refrigeration systems
• Carrier
• Thermo King
• Mitsubishi
• Konvekta

Operating voltage
• 10 - 32 V with load dump protection

Power
• Consumption: nominal value 0.6 W, max. 25 W (while printing)
• Low power mode capability

Environmental
• Operating temperature: -30 °C / +70 °C
• Maximum temperature: -40 °C / +85 °C
• TX3: IP65
• RX3: IP20

Humidity
• Relative humidity: 97% at 25 °C

Memory size
• Memory size: 8 MB, minimum 1 year with 2 sensors on a 15 min logging interval

Interfaces
• Inputs: 6 temperature sensors (-50 °C / +70 °C)
• Digital inputs: 1 digital for display background light, active >5 VDC, 4 closed circuit
• Open output: 1 switched to ground and current limited to 1A
• 3-axis accelerometer

Bluetooth
• Data transmission to EuroTool service software and service/parameter programming via Bluetooth

External interfaces
• Data ports: 2 RS-232 connectors for external devices
• CAN Bus: 1 port

Cellular communications
• 3G HSPA

Dimensions
• TX3: 225 x 185 x 111,7 mm (8.86" x 7.28" x 4.4")
• RX3: 186 x 58 x 150 mm (7.32" x 2.28" x 5.91")

Compliance
• EN 13486, CLASS 1
• -852/2004 AS OF 1.1.2006
• HACCP
• GAMP 5
• CE
• RED
• PTCRB

Certification
• EN12830:2018 Class 0.5 (-25°C to +7°C), Class 1 (-40°C to +50°C)
• E-13 type approval to 95/54/EEC

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ORBCOMM is a pioneer in IoT technology, empowering customers with insight to make data-driven decisions that help them optimise their operations, maximise profitability and build a more sustainable future. With 30 years of experience and the most comprehensive solution portfolio in the industry, ORBCOMM enables the management of over a million assets worldwide for a diverse customer base spanning transportation, supply chain, heavy equipment, maritime, natural resources and government. For more information about how ORBCOMM is driving the evolution of industry through the power of data, visit www.orbcomm.com.

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