ORBCOMM®

WHERE IoT POWERS ASSET INTELLIGENCE™

Datasheet

Sensors app loaded on ST device and installed on the asset

Sensors app

Extract, process and report field sensor data at the edge for greater data efficiency—without custom development.

ORBCOMM© terminal apps provide additional functionality and data efficiency without requiring custom programming so IoT solution developers can build better products faster. We offer a wide range of terminal apps across multiple industries, backed by free software updates and our industry-leading technical support, to help reduce development costs, quicken time to market and unlock new industrial IoT capabilities.

Our Sensors terminal app enables ORBCOMM terminals to perform advanced edge processing on real-world sensor inputs—converting raw data into actionable insights for operational decisions and enabling greater power and data efficiency for IoT solutions. The app supports analog, digital, Bluetooth, 1-Wire and serial-connected sensors, and when paired with other apps like Modbus or Heavy CAN Bus, it becomes a cornerstone for industrial telemetry solutions.

- **Edge processing capabilities**
- **Alerts based on threshold crossings**
- **Compatible with most 3rd-party analog and digital sensors**
- **Seamless integration with CAN bus and Modbus data**
- **Compatible with satellite, cellular and dual-mode satellite-cellular terminals**

It can be used in a variety of applications across the heavy equipment, oil and gas, mining, agriculture, transportation and utilities industries to help enable:

- Reporting of key field metrics periodically or upon state changes
- Alerts based on threshold crossings
- Histogram summaries for statistical analysis

- Seamless integration with CAN bus data (via Heavy CAN bus app)
- Monitoring of up to 24 sensor sources with configurable sampling and reporting
- Extension of SCADA data processing via Modbus app pairing

Configurations

- Works standalone or combined with Modbus or Heavy CAN Bus apps
- Supports both over-the-air (OTA) and local configuration via shell or Lua API
- Compatible with satellite, cellular and dual-mode satellite-cellular terminals
- Supports 24 individually configurable sensors

Sensor types and input methods

- Analog inputs (0–5V, 4–20mA)
- Digital inputs (binary state)
- Bluetooth and 1-Wire compatible
- Serial (Modbus RTU/ASCII or custom protocol via pairing apps)
- CAN bus (in conjunction with Heavy CAN Bus app)

Edge processing and reporting

- Produces min, max, mean, and histogram stats per reporting window
- Supports either daily or periodic reports with configurable reporting intervals
- Triggers live threshold crossing alarms
- Bins histograms with configurable ranges
- Flexible reporting via:
  - Daily summary
  - Periodic reports
  - Event-driven threshold crossing alerts

SCADA and backend integration

- Sends sensor data to control systems over the air
- Fully supports remote reconfiguration and report setup
- Compatible with utility-focused terminals for cellular-only reporting

Terminal apps are available by subscription. Subscription fees are charged monthly for each activated terminal. For more info, contact your ORBCOMM account manager or **sales@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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