

FACT SHEET

ZEBRA M-300 ELECTRONIC
TEMPERATURE SENSOR



M-300

Mobile Sensors for Wireless Temperature Tracking and Data Sharing

- Robust Bluetooth® wireless connectivity
- Tracks temperature of trucks, containers and packaging in transit
- EDGEVue® App for mobile device setup, monitoring and cloud data sharing
- Line-of-sight sensing range of 164 feet (50 meters)
- Internal sensor range -40 to +85°C and memory for 16,000 data points
- Robust IP67 protection against ingress of dust and water immersion

The Zebra M-300 is an advanced electronic temperature sensor that enables easy setup and on-demand tracking with smartphones and other Bluetooth®-enabled devices. With the EDGEVue app, temperature preferences setup, such as ranges and alarms, requires no dedicated equipment, docking stations or computer software installations.

As the M-300 records the temperature, EDGEVue provides fast, on-demand data history — including geolocation data from the mobile device. In addition, the temperature data from the M-300 can automatically be accessed and uploaded to the cloud using the OCEABridge® gateway.

The M-300 is a compact design, with IP67 protection for variable environments, and a magnetic mount for placement inside containers and enclosures. It features three LED status lights and has interchangeable colored sensor rings that can be used to uniquely identify each sensor. The long-life Lithium battery is replaceable.

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Sensor Specifications

Multi-use module with replaceable battery

Sensor: Aluminum ring around sensor circumference

Temperature Range: -40 to +85°C (-40 to +185°F)

Accuracy: +/- 0.3°C

Resolution: 0.01°C

Temperature Display: °F or °C, selectable

Certifications: NIST® Traceable Certification, ISO/IEC 17025 (Cofrac) certified or traceable calibration available, EN12830

Dimensions

Diameter: 2 in (50 mm)

Thickness: 0.87 in (22 mm)

Weight: 2 oz (57 grams)

Case: ABS, polycarbonate, aluminum IP67 protection

Mounting: 2-sided magnetic mount (“weak” and “strong” sides), adhesive or screw mount

Module Identification: Customizable name for each Zebra device

Battery

Battery: Lithium, replaceable (P/N 30-0200)

Battery Life: M-300 battery life varies with the ambient temperature. Typically, batteries have a shorter life in colder environments.

Data Logging Functions

LED indicator: Alarm status and communication

Alarm Limits: Programmable high and low, with delay

Startup options: Immediate, Delayed with programmable threshold, and Start on Magnet contact

Data logging intervals: Programmable, 15 seconds to 59 seconds (1 second intervals) or 1 to 255 minutes (1 minute intervals)

Data logging stop: Programmable, memory full, or overwrite oldest values

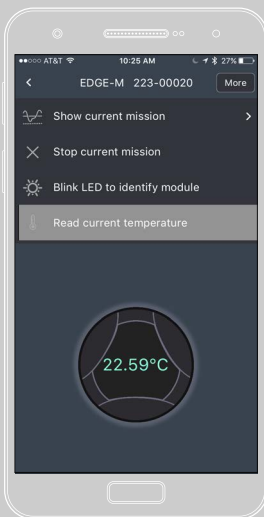
Date/Time Stamps: Programmable local time or GMT

Memory Internal: up to 16,000 data points

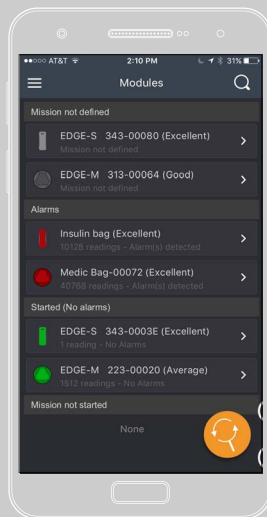
Reports: CSV and PDF file formats



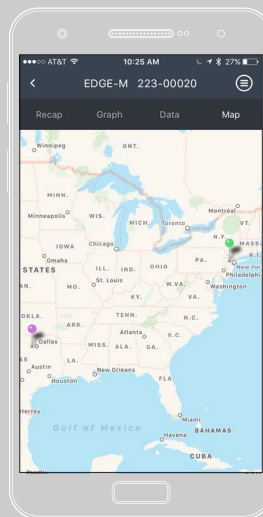
Download the free EDGEVue® app from iTunes or Google Play



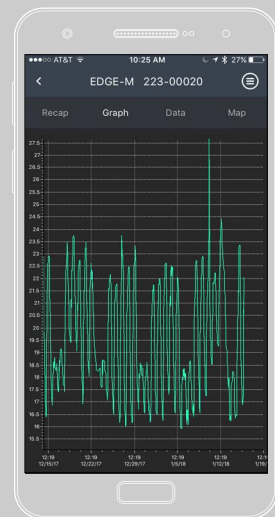
Use EDGEVue to set up data logging profile and preferences



EDGEVue automatically detects the M-300 sensors within Bluetooth range



Uses smartphone/tablet GPS to track routes with detailed information



Connect to the M-300 to monitor data on-demand, anywhere along the delivery route

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EDGEVue® and Wireless Specifications

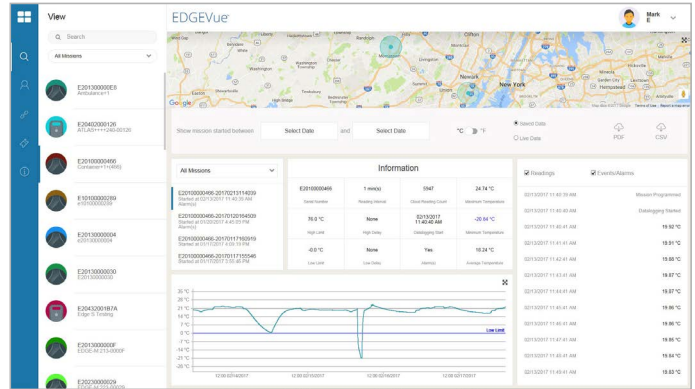
Bluetooth® 4.2 technology

Wireless range: Line-of-sight, up to 164 feet (50 meters)

Device Compatibility: Program and read with iPhone 4S or higher, iPad 3 or higher, and Android 4.4 or higher.

Detection: Wireless access through isothermal packaging, refrigerated vehicle siding, freezers, refrigerators and cold rooms (may depend on wall thickness and environmental conditions). EDGEVue App, Free on iTunes and GooglePlay, automatically detects Zebra devices within Bluetooth range.

Cloud Storage and Access: Store unlimited data on EDGECloud® and access through the EDGEVue Web application for viewing and generating reports.



Access, view and manage information from Zebra sensors using the EDGEVue web application.

Tap into the future of temperature monitoring at zebra.com/electronictempensors



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