



Emerald

Bluetooth®-
enabled data
logger for mobile
temperature
monitoring

TRACKING YOUR COLD CHAIN ON-THE-GO

The OCEASOFT Emerald Bluetooth®-enabled data logger matches the trends and challenges of today's temperature-controlled supply chain in a variety of domains, including life sciences, transport & logistics, and retail & food services.

From storage to delivery, Emerald monitors the temperature of sensitive and perishable products, tracking data at every step. Thanks to its compact size, Emerald fits neatly into nearly any type of container, packaging, or enclosure.

The Emerald data logger can monitor a wide range of temperatures. Equipped with an internal sensor or an external Pt100, Emerald adapts to your environment. A colored ring on each module enables easy identification and calibration.

The OCEAView mobile application for smartphones and tablets enables you to set up custom data logging in just a few taps, with your choice of startup modes to start data logging at the right time.

Bluetooth® wireless technology makes it easy to retrieve data using a mobile device without opening packaging, reducing risks of temperature excursions and human error. Emerald stores up to 16,000 readings internally, and you can benefit from unlimited storage on the OCEASOFT Cloud platform. Data on the Cloud can be accessed 24/7 via a web application on your computer, smartphone, or tablet. Alerts are sent by e-mail to enable fast response if problems are detected.

Use the OCEABridge automation tool to automatically retrieve Emerald data and optimize your processes, and OCEABench to program higher volumes of modules.

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Quality before Quantity

- Simple to set up and use
- Easy access to data
- Compliant with EN 12830, GxP, developed according to FDA 21 CFR Part 11 requirements
- Robust construction and performance

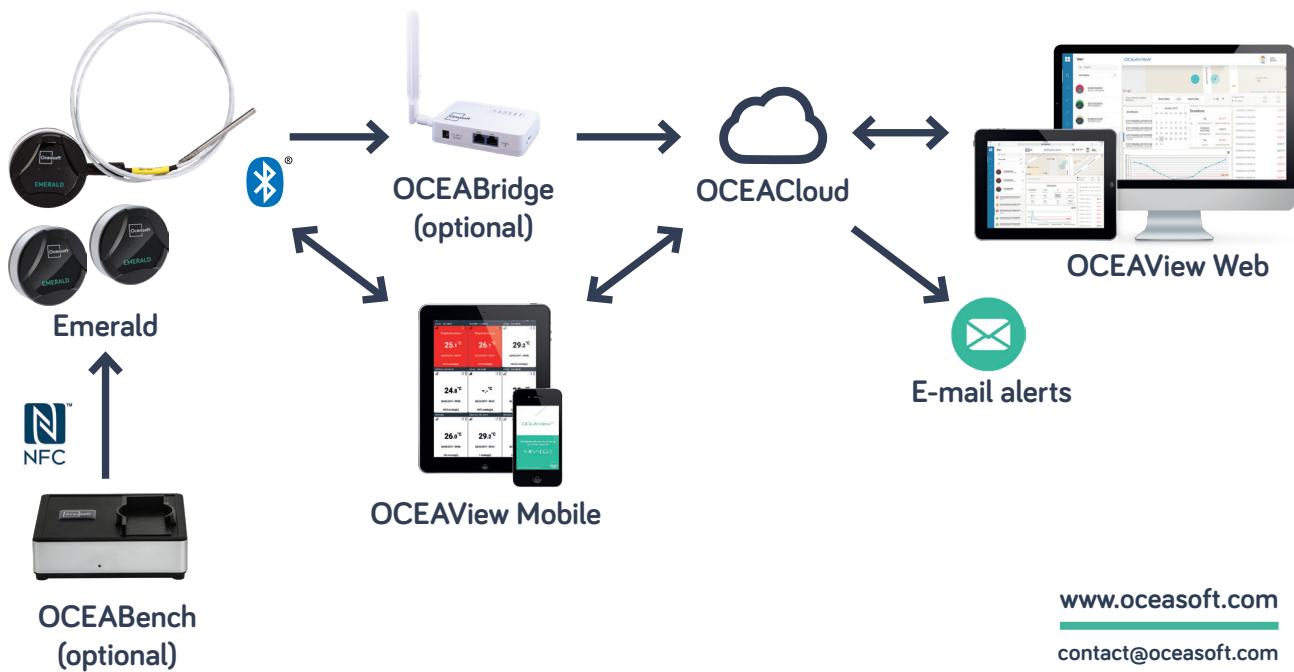


EMERALD TECHNICAL FEATURES

Monitoring applications	Life sciences • Transport & logistics • Retail & food services
Connectivity	Bluetooth® Smart 5.0 wireless technology • LOS range up to 50 meters (depending on the environment) • NFC for fast and automated wireless programming with OCEABench
Sensors	Module with internal sensor: -40°C to +85°C • Resolution: 0.0625°C • Accuracy: ± 0.5°C • Expanded uncertainty (after calibration): ± 0.3°C to 0.5°C Module with connector for external sensor: Pt100 sensor (sold separately) -50°C to +200°C or -200°C to +50°C • Resolution: 0.03°C • Accuracy: ± 0.5°C • Expanded uncertainty (after calibration): ± 0.05°C to 0.25°C <i>Both Emerald modules are recognized as wireless sensors by Cobalt X-series data loggers</i>
Operating conditions	Module placement: -40°C to +85°C • 0 to 90% relative humidity non-condensing
Calibration	ISO/IEC 17025 (COFRAC) accredited laboratory • OCEASOFT certified • NIST traceable • Recalibration via sensor/module exchange
Monitoring software	OCEAView Mobile for iOS & Android (free on platform app stores) for configuration, data collection, monitoring, reports, geolocation, firmware updates • OCEAView Web (subscription required) for online monitoring and reports
Companion tools	OCEABridge automated wireless data collection • OCEABench wireless programming bench
Battery	1/2 AA battery (LR6) • Duration up to 1 year (depending on configuration and operating conditions) • User-replaceable
Memory capacity	16, 000 readings (4 weeks of data with reading interval of 10 minutes) • Unlimited storage on OCEAView Web
Alarms & alerts	Configurable read interval (15 secs. to 4 hrs.) • Alarm indication on module • Real-time alert with OCEAView Mobile in Watch Mode • Alerts sent by e-mail automatically when alarms detected by OCEAView Web platform
Mounting kit	Wall-mount kit for use with screw or magnet
Casing	Protection index: IP67 with internal sensor, IP40 with external sensor • ABS/polycarbonate, aluminium • Interchangeable color ring (only for module with internal sensor)
Dimensions	Dimensions: Ø 50 mm x 20 mm (Ø 1.9 x 0.8 in.) • 58 g (2 oz.)
Compliance & Certifications	EN 12830 certified for the transport, storage, and distribution of frozen and chilled food • Bluetooth®: QD ID 81876 • Europe CE: EN 60950-1 2011-01 3.1; EN 301 489-17 V2.2.1 3.1; EN 300 328 V1.8.1 3.2 • Japan: MIC ID: 210-106799 • New Zealand • Australia • North America: FCC ID: 2AA9B04, IC ID: 12208A-04



EMERALD SOLUTION OVERVIEW



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