Emerald™

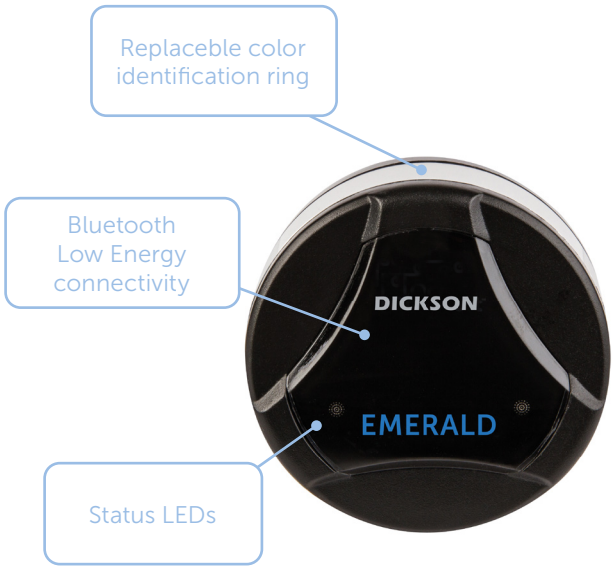
Bluetooth® data logger & wireless sensor

DICKSON
Environmental Monitoring + Compliance Experts

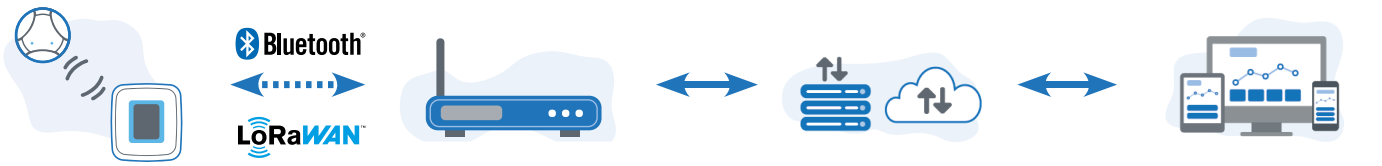
Bluetooth-enabled wireless temperature sensor for Cobalt X data loggers or multi-destination data logger for mobile monitoring

Emerald can be used as mobile data logger or as a wireless sensor paired with a Cobalt X data logger. For monitoring on the move, you can collect data at any time with the OCEAView™ Mobile app and forward it to the OCEAView web platform. As a wireless sensor for Cobalt X, Emerald enables cable-free placement in hard-to-reach areas.

- Functions as mobile data logger or external wireless sensor for Cobalt X
- Shock-resistance ideal for cold chain tracking on the go
- Data access via smartphone, tablet, or OCEAView solution



Emerald as a wireless sensor paired to a Cobalt X data logger



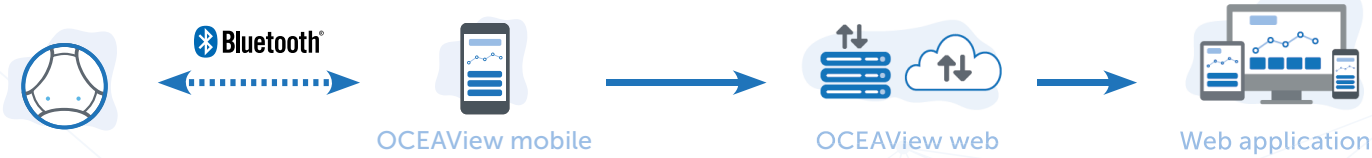
Cobalt X data logger

LoRaWAN or Bluetooth receiver

OCEAView Cloud or on-premises platform

Web application user interface

Emerald as a wireless datalogger



OCEAView mobile application

OCEAView web application

Web application user interface

Specifications

Applications	Standalone data logger for cold-chain and transport • As Cobalt X wireless sensor in hard-to-reach locations
Physical parameters	Temperature
Supported sensors	Internal digital temperature sensor: -40 °C to + 85 °C • Resolution: 0.0625 °C • Expanded uncertainty after calibration: ± 0.3 °C to 0.5 °C External Pt100 sensor
Calibration by our in-house laboratory	ISO/IEC 17025 (COFRAC) accredited • Laboratory certified (non-accredited) • NIST traceable • Recalibration via sensor exchange
Measurement points	1 measurement point
Display & interface	No physical display • Magnet controllable Bluetooth on/off for pairing, data logging start
Alarms	1 high and 1 low alarm limit (with delay) • Visual alarm/status indicator • Alert notification via OCEAView
Software	Integration with OCEAView monitoring platform • Adjustable sensor reading interval • Data logging configuration via OCEAView or OCEAView Mobile
Connectivity	Bluetooth Low Energy (integrated antenna) • NFC for fast programming on OCEABench
Data management	16,000 readings (about 4 months of data with reading interval of 10 minutes) • Unlimited storage of uploaded data in OCEAView
Power	Li-SOCl2 (LS14250) 3.6 V user-replaceable Lithium battery • Over 1 year battery life (depending on usage)
Operating conditions	-40 °C to +85 °C (-40 °F to +185 °F) • 0 to 90% RH (non-condensing)
Storage conditions	-40 °C to +85 °C (-40 °F to +185 °F) • 0 to 90% RH (non-condensing) • Optimal storage around 25 °C (77 °F)
Casing & dimensions	ABS / ABC-PC / aluminum • Ø50 x 20 mm (Ø1.9 x 0.8 in.) • Weight w/battery: 48 g (1.7 oz.)
Protection index	IP44 (IP40 with external sensor)
Mounting & installation	Mounting kit for use with screws or magnet
Certifications	CE, FCC, IC • EN 12830 certified

Bluetooth® NFC

Product references

PART NUMBER	DESCRIPTION
Emerald data logger with internal sensor	
ENR.EMD.P005	Data logger with internal temperature sensor
Emerald data logger for use with Standard Sensors	
ENR.EMD.P006	Data logger with connector for external Pt100 sensor
Accessories	
Contact us	Color identification rings (5- or 10-pack)
ACC.EMD.0012	Set of 4 x LS14250 batteries

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