OCEASOFT™

A DICKSON COMPANY

Environmental Monitoring + Compliance Experts

Emerald wireless temperature sensor for Thermo Scientific™ Smart-Vue Pro Modules (Data Loggers)

BLUETOOTH® WIRELESS SENSORS FOR SMART-VUE PRO

The OCEASOFT Emerald Bluetooth-enabled sensor pairs wirelessly with Smart-Vue Pro data loggers, adding even more flexibility for your on-site setup. Temperature data is collected transparently by your Smart-Vue Pro data logger and uploaded to the Smart-Vue Pro web platform. You can place the sensor anywhere within wireless range and benefit from convenient cable-free installation. Remote monitoring with Emerald wireless sensors is controlled entirely via the Smart-Vue Pro web application.

- Available with an internal temperature sensor or external Pt100 sensor

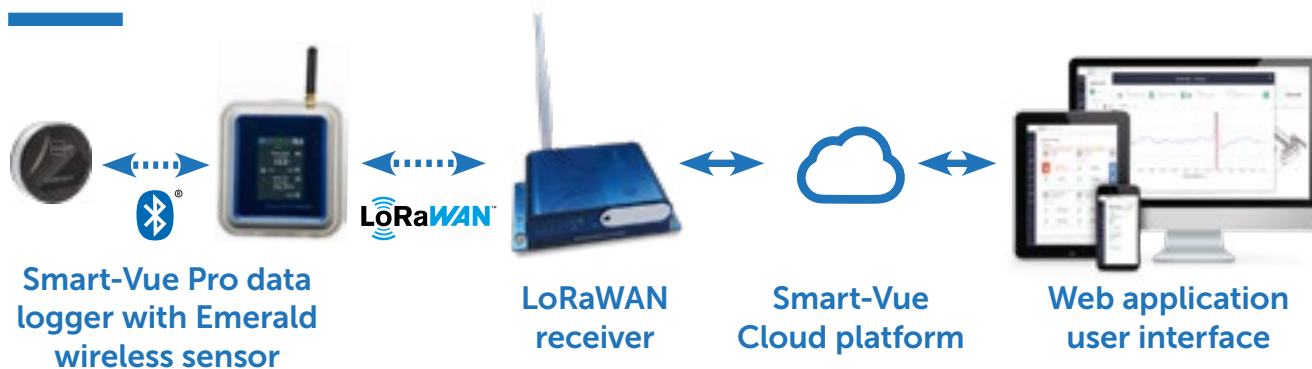- Bluetooth wireless technology to pair with Smart-Vue Pro data logger

Emerald with internal temperature sensor

Emerald with external Pt100 sensor

Smart-Vue Pro data logger

OCEASOFT Emerald wireless sensors with Bluetooth wireless connectivity

SPECIFICATIONS

Applications	Life sciences • Retail & food services
Product compatibility	Smart-Vue Pro Duo • Smart-Vue Pro Quatro
Color LED	Indicator for alarm status & communication
Temperature ranges and accuracy	**With internal sensor:** −40°C to +85°C • Resolution: 0.0625°C • Accuracy ± 1°C without calibration • Accuracy after calibration: ± 0.2°C • Calibrated at +5°C **With connector for external Pt100 sensor:** −50°C to +200°C • Resolution: 0.015625°C • Accuracy ± 1°C without calibration • Accuracy after calibration: ± 0.2°C • Calibrated at +5°C −200°C to +50°C • Resolution: 0.015625°C • Accuracy ± 1.5°C without calibration • Accuracy after calibration: ± 0.2°C • Calibrated at −80°C
Connectivity	Bluetooth Low-Energy • Recognized as remote sensor by Smart-Vue Pro data loggers • Range up to about 50 meters (160 ft.) in line-of-sight • Frequency (worldwide): 2.4 GHz • Max output: 4 dBm
Calibration	ISO/IEC 17025 (COFRAC) accredited laboratory • OCEASOFT certified • NIST traceable • Recalibration via sensor/datalogger exchange
Operating conditions	−40°C to +85°C • 0 to 90% relative humidity non-condensing
Battery	1/2 AA battery (LR6) • Duration up to 1 year (depending on configuration and operating conditions) • User-replaceable
Mounting kit	Wall-mount kit for use with screw or magnet
Casing & protection	Protection index: Conforms to IP44* for Emerald with internal sensor, IP40* for Emerald with external sensor+ PT100 sensor • ABS/polycarbonate, aluminium • Interchangeable color identification ring (only for data logger with internal sensor) • Compliant with EN 12830 *Note: IP rating is based on Internal evaluation only.
Dimensions	Ø 1.9 x 0.8 in. (Ø 50 x 20 mm) • 58 g (2 oz.)
Cable length (Pt100 only)	57.48 in. (1460 mm)
Approvals	FCC, EC, IC, Japan, Australia, New Zealand modular approvals

SMART-VUE PRO MONITORING SOLUTION FLOW

Smart-Vue Pro data logger with Emerald wireless sensor

LoRaWAN receiver

Smart-Vue Cloud platform

Web application user interface

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DATASHEET