

Cobalt L3™

LoRaWAN® data logger for OCEAView™ solution

DICKSON
Environmental Monitoring + Compliance Experts

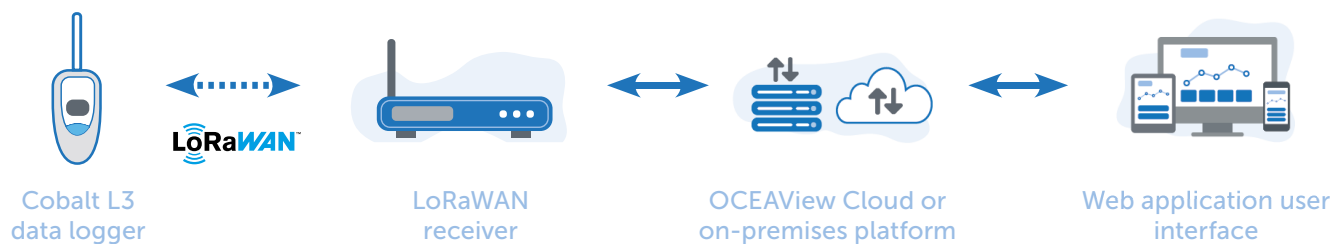
Temperature and humidity data logger with LCD screen and LoRaWAN connectivity for fixed monitoring

With its button-controlled LCD display and LoRaWAN connectivity, Cobalt L3 offers both simplicity and long wireless range, positioning it as a competitively priced OCEAView solution data logger for temperature and humidity monitoring. Well suited for the life science, agri-food, and logistics sectors, the Cobalt L3 data logger efficiently monitors temperature and relative humidity for a wide range of sensitive assets including products, equipment, and storage facilities.

- Monitoring for temperature or temperature and humidity simultaneously
- Ideal for refrigerators, freezers, ULT freezers, Nitrogen tanks, and incubators
- Internal and external sensors to meet your specific needs
- Low energy optimization for long battery life
- Fully integrated with OCEAView Cloud or on-premises monitoring solution via LoRaWAN



Information flow with Cobalt L3 in OCEAView monitoring solution



Specifications

Applications	Refrigerators • Freezers • ULT freezers • Nitrogen tanks • Water baths • Ovens • Autoclaves • Cold rooms • Cleanrooms • Warehouses
Physical parameters	Temperature • Humidity
Supported sensors	Internal digital temperature sensor: 0°C to +50°C (+32°F to +112°F) • Resolution: 0.03 °C • Expanded uncertainty after calibration: ± 0.06 °C to 0.25 °C External digital temperature sensor: -40°C to +120°C (-40°F to +248°F) Pt100 Smart-Sensor: -200°C to +200°C (-328°F to +392°F) Dual temperature/relative humidity Smart-Sensor: -40°C to +100°C (-40°F to 212°F), 0% to 99.9% relative humidity
Calibration by our in-house laboratory	ISO/IEC 17025 (COFRAC) accredited • Laboratory certified (non-accredited) • NIST traceable • Recalibration via sensor exchange
Measurement points	Up to 2 measurement points
Display & interface	LCD screen • Push-button for synchronization with server, communication test, sensor update, screen saver management • Displays latest reading(s), battery level, wireless signal • Temperature in °C or °F
Alarms	1 high & 1 low alarm limit (with delay) • Visual alarm indicator • Alert notification via OCEAView
Software	Full integration with OCEAView monitoring platform (Cloud or on-premises) • Sensor reading interval adjustable for each measurement point • Data logging setup handled via OCEAView
Connectivity	LoRaWAN long-range wireless technology, range up to about 15 km/10 miles L.O.S. ⁽¹⁾ • LoRaWAN regional channel plans in ISM radio spectrum: EU868, US915 • Omnidirectional antenna
Data management	4,000 readings per measurement point (about 4 weeks of data with reading interval of 10 minutes) • Unlimited storage of uploaded data in OCEAView
Power	Li-SOCl ₂ (LS17500) 3.6 V user-replaceable lithium battery • Battery life at least 1 year (based on usage)
Operating conditions	Standard data logger: 0 °C to +50 °C (+32 °F to +122 °F); 0 to 90% RH (non-condensing) • With optional IP67 casing: -30 °C to +50 °C (-22 °F to +122 °F); 0 to 99.9% RH (non-condensing)
Storage conditions	-10 °C to +60 °C (+14 °F to +140 °F) • 0 to 90% RH (non-condensing) • Optimal storage around 25 °C (77 °F)
Casing & dimensions	ABS / ABC-PC casing • Dimensions with antenna: 208 x 34 x 64 mm (8.1 x 1.3 x 2.5 in.) • Weight with battery 150 g (5.3 oz.)
Protection index	IP64 standard • Optional IP67 external case to protect against shocks, vibrations, cleaning operations
Mounting & installation	Wall-mount kit for use with screws, magnet, or Velcro®
Certifications	CE, FCC, IC • EN 301 489-17 V1.3.3 in compliance with EN 301 489-1 V1.8.1 • EN 300 328 V1.7.1

⁽¹⁾ Line-of-Sight range based on environmental conditions & antenna orientation. Requires LoRaWAN coverage. ⁽²⁾ Contact us if you need to order without batteries. ⁽³⁾ External sensors sold separately.



Product references

PART NUMBER ⁽²⁾⁽³⁾	DESCRIPTION	SENSOR(S)
Cobalt L3 data logger with internal temperature sensor		
ENR.L38.P007 (868 MHz) ENR.L35.P007 (915 MHz)	Data logger with internal temperature sensor	1
Cobalt L3 data logger for use with external sensors, to be ordered separately		
ENR.L38.P006 (868 MHz) ENR.L35.P006 (915 MHz)	Data logger for external sensor (1.5 m / cable, 1 connector)	1 or 2
Cobalt L3 data logger with IP67 case for use with external sensors, to be ordered separately		
ENR.L38.P008 (868 MHz) ENR.L35.P008 (915 MHz)	Data logger with IP67 case for external sensor (1 connector)	1 or 2
Accessories		
ACC.ENR.0030	IP67 case for Cobalt L3 with external sensor	n/a



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