

Cobalt XS™

The essential data logger

Cobalt XS is the latest addition to Dickson's data logger range for the OCEAView and DicksonOne Cloud monitoring solutions. Offering a small footprint and LoRaWAN wireless connectivity, the data logger supports a variety of external temperature and relative humidity sensors.

Ideal for life science, agri-food, and logistics sectors, Cobalt XS gives you a cost-effective and reliable way to keep an eye on the environmental parameters of your sensitive assets, storage facilities, products, equipment, and more.

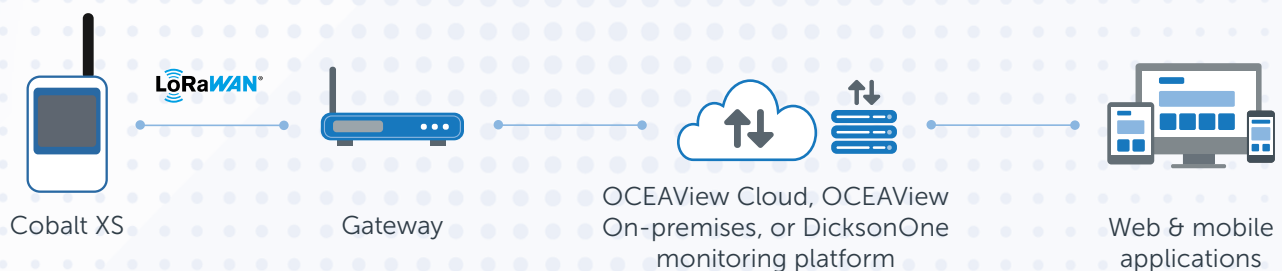
The Cobalt XS data logger implements LoRaWAN wireless connectivity⁽¹⁾ to provide very long-range coverage to minimize your related on-site infrastructure requirements.

Dickson's Smart-Sensor technology makes maintenance easier by storing all calibration information directly in the sensor, providing both high accuracy and on-the-fly sensor swapping for recalibration.

- Fully integrated with the OCEAView Cloud, OCEAView On-premises, and DicksonOne Cloud monitoring solutions using LoRaWAN wireless connectivity
- Compatible with Dickson's digital temperature, Smart-Sensor Pt100, and dual temperature/humidity sensors
- Ideal for the life sciences sector, including labs, hospitals, storage facilities, and manufacturing
- Button-controlled high-contrast LCD screen



Information flow



(1) With support for worldwide radio frequencies, LoRaWAN wireless technology can be deployed in nearly any country.

Specifications

Applications	Refrigerators • Freezers • ULT freezers • Nitrogen tanks • Water baths • Ovens • Incubators • Autoclaves • Cold rooms • Cleanrooms • Warehouses
Supported sensors	Temperature • Temperature/relative humidity
Sensor calibration options	ISO/IEC 17025 (COFRAC) accredited • In-house laboratory certified (non-accredited) • NIST-traceable • Recalibration via sensor exchange
Measurement points	One Binder connector for single or dual sensor probes
Display & interface	2.4" (6.1 cm) LCD screen for setup, synchronization with server, latest readings, battery level, signal strength • Temperature in °C or °F
Alarms	Alarms and warnings indicated by flashing light • Managed directly by data logger and transmitted to monitoring platform for fast user notification • 3 high & 3 low limits (with programmable delay for each limit)
Monitoring software	Full integration with OCEAView Cloud, DicksonOne Cloud, and OCEAView On-premises monitoring platforms • Data logging setup handled via OCEAView or DicksonOne • Adjustable sensor reading interval
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, AS923-1, AU915, IN865, KR920 • Bluetooth Low Energy (compatible with OCEAView Mobile smartphone app 3.6.2 and higher) • Omnidirectional antenna
Data management	4,000 readings per sensor (about 4 weeks of data with reading interval of 10 minutes) • Unlimited storage of uploaded data on monitoring platform
Power	3.6 V user-replaceable lithium battery ⁽²⁾ (use only SAFT LS17500 battery) • At least 1 year battery life (standard usage) • Maximum current consumption 100mA • Maximum power 0.36W
Operating conditions	Standard data logger: 0 °C to +50 °C (+32 °F to +122 °F); 0 to 90% relative humidity (non-condensing) • With optional IP67 casing: -30 °C to +50 °C (-22 °F to +122 °F); 0 to 99.9% relative humidity (non-condensing) • Product may be used at a maximum altitude of 2,000 meters (6,562 ft)
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 plastic casing • 69 x 107 x 31 mm (2.7 x 4.22 x 1.22 in.) • Weight with battery: 130 g (4.6 oz.)
Mounting & installation	Wall-mount kit for use with screws or Velcro® • For indoor use only in non-harsh environments • Maximum mounting height 1.8 meters (about 6 feet) from the floor
Certifications	FCC • CE

⁽¹⁾ Line-of-Sight range based on environmental conditions. Requires LoRaWAN coverage.

⁽²⁾ Contact us if you need to order without battery.



Product references

PART NUMBER ⁽²⁾	DESCRIPTION	SENSORS ⁽³⁾
Cobalt XS data logger (<i>sensors not included</i>)		
ENR.CXS.P001	Cobalt XS - Multi-region	Single or dual sensor probe
Accessory		
contact us	IP67 protective casing	-

⁽³⁾ Sensors sold separately



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