



# Cobalt 2

Multi-parameter  
& compliant  
wireless  
monitoring  
solution

## A WIDE RANGE OF CONNECTED SENSORS

OCEASOFT Cobalt 2 offers wireless connectivity and a wide range of connected sensors to meet all your monitoring and traceability needs. Cobalt 2 enables a real-time monitoring of temperature, humidity, pressure, and CO<sub>2</sub> and provides alarms to protect your sensitive products and critical environments.

The cornerstone of the Cobalt 2 wireless monitoring system is the ThermoServer-ThermoClient™ software suite, enabling you to configure and manage your installation and access rights, define the parameters to be monitored, set up alarms, and generate reports and audit

trails compliant with 21 CFR Part 11. The Cobalt 2 solution can be equipped with a range of sensor types to monitor various physical parameters: digital, internal or external, single or dual, depending on the target application, such as monitoring incubators, freezers, liquid nitrogen tanks...

Data is first stored locally in Cobalt 2 memory and then transmitted wirelessly to ThermoServer™ at programmable intervals. Data can also be sent to the cloud, OCEACloud™, where it is accessible via ThermoClient™ Mobile.

ThermoServer™ and the OCEAlert™ solution automatically send alerts via e-mail, SMS/text and voice messages with acknowledgement traceability. The ThermoServer - ThermoClient™ suite is ideal for large sites and multi-site installation.

- 21 CFR Part 11, GxP compliant
- Real-time monitoring with alerts via e-mail, SMS/text and voice messages
- Multiple parameters
- Flexible
- Easy-to-use



## GENERAL FEATURES

### Connectivity

- › One-click configuration
- › Wireless connectivity up to 700 meters (2,300 feet) line-of-sight depending on the operating environment\*

### Screen

- › High-visibility LCD display
- › Informative display with latest reading, module details, signal strength, and remaining battery level
- › Diagonal: 1.4 in.

### Sensors

- › Temperature ranges:  
External sensor from -200C to +350°C\*\* (-328°F to +662°F)  
Internal sensor: from 0°C to +50C (32°F to 122°F)
- › Humidity, CO<sub>2</sub>, differential pressure, 4-20mA and 0-5V
- › Calibration available from the OCEASOFT laboratory: ISO/IEC 17025 (COFRAC) accredited, OCEASOFT certified, or NIST-traceable

### Data management

- › Up to 3,000 readings stored in device memory and unlimited with ThermoServer™ software suite

## SPECIFICATIONS

### Module dimensions

- › Height: 132.7 mm (5.2 in.)
- › Width: 34 mm (1.3 in.)
- › Length: 64.2 mm (2.5 in.)
- › Weight: 150 g (5.3 oz.)

### Casing details

- › Casing: ABS
- › Protection rating: IP65 (IP 67 with external casing)

### Mounting & installation

- › Mounting kit with plastic holder, magnet, screws, cable ties, plastic cable holders, and Velcro®

## BATTERY

- › Type: 3.6V Lithium (3600 mAh)  
Replaceable battery providing up to 2 years of service\*\*\*

## COMPLIANCE & CERTIFICATIONS

- › 21 CFR Part 11 - GxP, IQ, OQ
- › CE marking
- › COFRAC ISO/IEC 17025 accredited laboratory
- › NF EN 12830
- › North America: FCC, IC
- › Asia / Pacific: CMIIT
- › India: WPF
- › Brazil: ANATEL

## AVAILABLE SENSORS

- › Cobalt module operating conditions:  
0°C to +50°C (+32°F to +122°F) standard;  
-30°C to +50°C (-22°F to +122°F) using external casing;  
0 to 90% RH, non-condensing

## WIRELESS SPECIFICATIONS

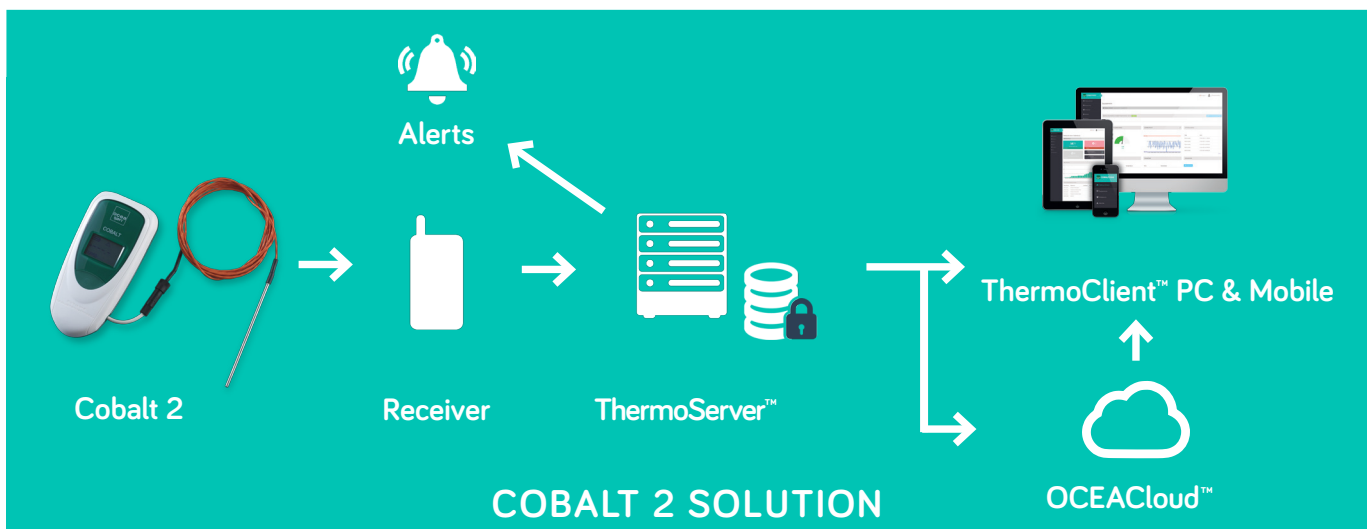
- › ISM (Industrial, Scientific and Medical) band with four frequencies (US/CAN 915 MHz, Europe 868 MHz, APAC 434 MHz, India and other countries 867 MHz)
- › Channel width: 50 kHz
- › Frequency deflection: 16 kHz (867/868/915 MHz), 9kHz (434 MHz)
- › Modulation type: GFSK
- › Driven transmission: 8 dBm to 10 dBm
- › Driven receiver sensitivity for BER = 1%: -107 dBm to -110 dBm
- › Power output: 10 MW (434 MHz) or 25 MW (867/868/915 MHz)



\* A wireless survey may be required

\*\* Depending on sensor type

\*\*\* Depending on use



[www.oceasoft.com](http://www.oceasoft.com)

[contact@oceasoft.com](mailto:contact@oceasoft.com)



© 2017 OCEASOFT S.A. All rights reserved. Cobalt 2, OCEACloud, ThermoServer, ThermoClient are registered trademarks of OCEASOFT. All other trademarks mentioned in this document are the exclusive property of their respective owners. Specifications are subject to change without notice.



**OCEASOFT S.A.**  
720 Rue Louis Lépine  
34000 Montpellier - FRANCE  
Tel: +33 (0) 4 99 13 67 30  
Fax: +33 (0) 4 67 42 84 13

**OCEASOFT Inc.**  
250 Phillips Blvd. - Suite 290  
Ewing, NJ 08618 - USA  
Tel: 1-609-589-1668  
Fax: 1-609-589-1669