

## Dry Contact Module

### APPLICATIONS

Module used for monitoring contact open/close state.

### WIRELESS

Range up to 700 meters (2,300 ft) in open space, from 25 meters (82 ft) to 100 meters (330 ft) indoors, and up to 400 meters (1,312 ft) indoors with 3 repeaters.

### DATA LOGGING

Storage for 3,000 readings in wireless module memory (equivalent to 3 weeks of readings with a measurement every 10 minutes).

### SERVICE DISCOVERY PROTOCOL (SDP)

Cobalt 2 setup is automatic. Simply press the button on the Cobalt 2 module for 3 seconds to connect it with your wireless receiver. If the wireless signal is not optimal, Cobalt 2 seeks a better path by using other Cobalt modules to relay its signal to the receiver.

(starting with Thermo-Server software Version 4.1)



### A cost-effective solution for monitoring binary open-closed states

Cobalt 2 is the industry's leading battery powered remote monitoring solution. Cobalt 2 is an end-to-end wireless solution for remote open-closed state monitoring.

The Cobalt 2 system is easy to install and easy to use. Since it is wireless, no cabling is required. It lets you measure storage temperatures for temperature-sensitive products accurately, remotely and in real-time. Cobalt 2 checks temperature automatically, stores temperature data for tracking and traceability purposes, and alerts you in case anomalies are detected.

The Cobalt 2 dry contact wireless module can be connected to any industry-standard device with a dry contact output, such as Typical devices that provide a dry contact output include alarm units, door open/close sensors, and switches.

Cobalt collects and stores status data at regular intervals, transmitting it wirelessly to a PC running the system management software. This software also handles alarms and data storage, giving you a fast and easy way to see all your measurements and anomalies in just a few clicks.

- **Contact closure:** measures open/closed state on contact closure
- **Battery operated:** up to 2 years autonomy depending on use (battery model: LS17500 Saft Mazda 3.6V Lithium, p/n COB0340000)
- **Wireless module mount:** includes double-sided Velcro® or magnetic adhesive on wall bracket back
- **ISM (Industrial Scientific Medical) band with 3 frequencies:** US/CAN 915 MHz, Europe 868 MHz, APAC 434 MHz

- FCC 15 compliant: CE EN-300-220
- Channel width: 50 kHz
- Frequency deflection: 16 KHz
- Transmission speed: 9600 Baud in NRZ mode
- Modulation type: GFSK
- Driven receiver sensitivity for BER= 1%: from -107dbm to -110 dbm
- Driven transmission: from 8 dbm to 10 dbm
- Power output: 25 mW

Plastic enclosure: ABS and Polycarbonate

Temperature range for exposure of the module (functioning of the electronics of the radio module): 0°C to 50°C (32° to 122°F). 0 to 90% RH non-condensing.

Protection index: IP65.

Depending on usage, battery change may be required between 1 and 3 years of operation. Cobalt notifies you approximately two months before the end of battery life (when 10% battery life remains). You may change your own batteries or have it done by OCEASOFT or another qualified technician.

Size: 132.74 x 64.15 x 34 mm (5.2 x 2.5 x 1.3 in)



## ON-DEMAND TEMPERATURE READING

Following a short press on the green button, Cobalt 2 reads the sensor immediately. On devices with two sensors, such as temperature/humidity sensors, the temperature reading on the first sensor is displayed for 3 seconds. Press the button again to read the second sensor.

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

## Large LCD Display



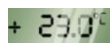
Alarm icon



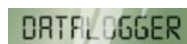
Battery level indicator



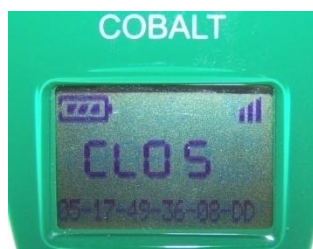
Performance indicator: wireless range (RSSI)



Display text: open / close message displayed



Sensor name



## Spontaneous alarm emission

Cobalt 2 sends an alarm to the Thermo-Server software, which forwards alerts to the appropriate user(s) in case values exceed pre-determined upper or lower limits. Cobalt 2 can also send spontaneous alarms with additional information:

- Low battery: When the battery-life counter reaches 10%, a technical alarm is automatically sent to let the user know that the battery needs to be changed soon.

## Contact closure state

OPEN / CLOSE message

2 wires: Yellow – Black

Minimum sampling period: 1 minute

Minimum sampling period: 255 minutes

## OCEASOFT

Bat 4, Parc club du Millénaire – 1025 rue Henri Becquerel  
34000 Montpellier, France

[www.oceasoft.com](http://www.oceasoft.com) [info@oceasoft.com](mailto:info@oceasoft.com)



More than monitoring