Bluetooth sensors

Bluetooth environmental sensors

for the Digiware system



Function

B-TRH and **B-MAG** sensors communicate with DIRIS Digiware M gateways and DIRIS / ISOM Digiware D displays wirelessly via Bluetooth.

The B-TRH sensor allows you to integrate temperature and humidity data into your Digiware power monitoring system. This means that when it comes to improving your energy performance as per the ISO 50001 methodologie, it is now possible to correlate energy consumption with the evolution of external factors. The sensor can also be used to anticipate maintenance work, by issuing an alert in the event of the electrical cabinet overheating or in the case of a leak, for example.

The B-MAG sensor is capable of detecting a loss of magnetic contact and will alert you upon the door opening of an electrical panel or restricted technical room.

Advantages

Effortless installation

- Integrated mounting accessory for easy installation.
- No additional wiring is required, the data is sent to the gateway or the display wirelessly via Bluetooth.
- Ultra-compact design that fits into the smallest of spaces.

Easy to configure

Automatic detection and pairing of sensors via the D-xx display or the M-xx gateway.

Maximum response

Sends real-time alerts when the measured temperature or humidity exceeds a predetermined threshold or when it detects a door opening.

General characteristics

Up to 16 sensors can be paired to the M-xx gateway or D-xx display to allow local and remote viewing on the WEBVIEW embedded web server.

The solution for

- > Data centre
- Industry
- Building



Strong points

- > Effortless installation
- Easy to configure
- > Maximum response

Conformity to standards

- > ISO 14025

Create your own project

- Find the best power monitoring system architecture: www.meter-selector.com

Expert services



Socomec offers a range of services to ensure a functional, accurate and reliable energy monitoring system as part of your

EXPERTS energ syster ISO 50001 strategy.

- Radio inspection.
- Start-up.

To find out more, ask your Socomec representative.

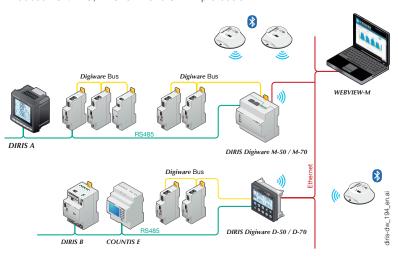


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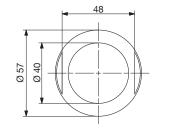
Communication architectures

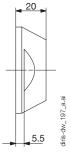
The data measured by the B-TRH and B-MAG sensors can be viewed locally on the Digiware D display and on the embedded webserver WEBVIEW. Digiware M/D gateways/displays provide this data on the Ethernet network via Modbus TCP/RTU, BACnet IP and SNMP protocols.



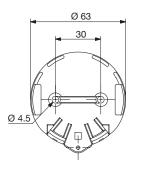


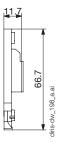
B-TRH and B-MAG





Mounting bracket





Technical characteristics

| | B-TRH | B-MAG | |
|------------------------------|---|---|--|
| Functional specifications | | 1 | |
| Frequency | 2.4 GHz – Bluetooth Low Energy 4.0/4.2 | | |
| Scope | Up to 500 metres free-field (+4 dBm) | | |
| Transmission frequency | Adjustable from 0.1 to 10 seconds | Adjustable from 0.1 to 10 seconds | |
| Battery properties | | | |
| Power supply | 3 VDC – internal lithium battery | 3 VDC – internal lithium battery | |
| Service life | Up to 16 years | Up to 10 years | |
| Measuring capacities | | | |
| Range | Temperature: -40 +85 °C Humidity: 0 100% | - | |
| Resolution | Temperature: 0.01 °C Humidity: 0.01% | - | |
| Accuracy | Temperature: ± 0.4 °C Humidity: ±2.5% max (0 - 90%); ±3.5% max (90 - 100%) | - | |
| Mechanical specifications | | | |
| Weight | 41 g | 41 g | |
| Case materials | DELRIN (POM C) | DELRIN (POM C) | |
| Case malenais | Compatible with power supply units (90/128/EEC) | Compatible with power supply units (90/128/EEC) | |
| Environmental specifications | 3 | | |
| Protection degree | IP 65 | IP 68 | |
| Temperature | -40 +85 °C | -40 +85 °C | |

| References | | | |
|----------------------------|---|------------------|--|
| Range of Bluetooth sensors | | Reference | |
| B-TRH | Temperature + humidity Bluetooth sensor | 4829 0800 | |
| B-MAG | Magnetic contact Bluetooth sensor | 4829 0801 | |

