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## DK 7030.111 CMC III sensors

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# DK 7030.111 - CMC III sensors

CMC III temperature/humidity sensor



## Features

|                     |  |
|---------------------|--|
| Model No.           | DK 7030.111  |
| Design              | Temperature/humidity sensor  |
| Product description | CMC III sensors are used for monitoring the physical environment and can be connected directly to the PU via a CAN bus connection cable RJ45. The sensors may also be linked together to form a bus.   |
| Benefits            | Fast connection and automatic detection via plug & play<br>Power is supplied via the CAN-BUS interface.  |
| Applications        | Enclosure monitoring in IT, industry and facility management<br>Monitoring of enclosures, rooms and containers in the IT environment   |
| Function principle  | Settings can be made via the CMC III processing unit or IoT interface<br>The CMC III temperature/humidity sensor monitors the ambient temperature and air humidity in the enclosure.<br>The sensor has an integrated temperature sensor and an integrated air humidity sensor. |
| Material            | Plastic<br>Front: Smooth<br>Enclosure: Textured  |
| Colour              | Front: RAL 9005<br>Enclosure: RAL 7035   |

# Features

|  |  |
|--|--|
| Supply includes                              | Sensor<br>Mounting plate<br>Assembly parts<br>Temperature/humidity sensor                                      |
| Connection to the CAN bus                    | Direct   |
| Interfaces                                   | 2 x RJ45 CAN bus   |
| No. of participants per IoT interface (max.) | 32   |
| No. of participating PU compact (max.)       | 4  |
| No. of participating PU (max.)               | 32   |
| No. of PDU devices (max.)                    | 16   |
| Measuring technique                          | Temperature sensor chip<br>Humidity sensor chip  |
| Dimensions                                   | Width: 80 mm<br>Height: 30 mm<br>Depth: 40 mm  |
| Operating temperature range                  | 0 °C...55 °C   |
| Ambient humidity (non-condensing)            | 5...95 %   |
| Packs of                                     | 1 pc(s).   |
| Net weight                                   | 0.1 kg   |
| Gross weight                                 | 0.16 kg  |
| PCF per pack (cradle-to-gate)                | 0.8 kg CO2 eq (Cat B)  |
| Note on PCF category                         | Category B: PCF value (cradle-to-gate) based on the product weight, approximately calculated and self-declared |
| Customs tariff number                        | 90268020   |
| ETIM 9                                       | EC002627   |
| ECLASS 8.0                                   | 27189253   |
| Product description                          | DK CMC III Temperature/humidity sensor, WHD: 80x28x40 mm   |

# Approvals

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Approvals

UL + C-UL (listed)

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Explanations

Manufacturer's declaration

Declaration of conformity

# Tender text

7030.111

CMC III temperature/humidity sensor with CAN bus

Packs of 1

Compact plastic housing with ventilated front in RAL 9005.

Housing in RAL 7035,

The sensor has two RJ45 connections with an integrated CAN bus. The sensor is automatically detected by the

CMC III system, the Processing Unit, and is provided with a sequential number in the bus sequence. Integrated multi-colour LED as status display.

An electronic temperature sensor is integrated into the sensor to measure the airflow temperature.

An electronic humidity sensor is also integrated to measure the relative air humidity in the airflow.

The power supply is ensured by connection to the CAN bus for the Processing Unit.

The warning and alarm limit values can be set via the software for the CMC III Processing Unit, however they are saved in the sensor itself.

Technical specifications - Temperature sensor:

Temperature measuring range:

0 °C to 55 °C

Resolution: 0.1 °K

Technical specifications - Humidity sensor:

Humidity measuring range: 5% to 95% relative humidity

Resolution: 1% relative humidity

Technical specifications:

CAN bus jacks RJ45: 2

Protection category: IP 30 to IEC 60 529

Temperature application range:

0 °C to 55 °C

Humidity range:

5% to 95% relative humidity, non-condensing

WxHxD: 80 x 28 x 40 mm

Included in the pack: Sensor, quick reference guide and universal mounting set