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## DK 7030.110 CMC III sensors

State: 5/09/2025 (Source: [rittal.com/au-en](http://rittal.com/au-en))

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# DK 7030.110 - CMC III sensors

CMC III temperature sensor

## Features

|                           |   |
|---------------------------|---|
| Model No.                 | DK 7030.110   |
| Design                    | Temperature sensor  |
| 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 sensor monitors the ambient temperature in the enclosure.<br>With a passive airflow the integrated sensor in the enclosure can be used. For applications without an active airflow, the external NTC sensor provided must be connected.<br>Measurement range for external sensors: -40 °C...+80 °C |
| Material                  | Plastic<br>Front: Smooth<br>Enclosure: Textured   |
| Colour                    | Front: RAL 9005<br>Enclosure: RAL 7035  |
| Supply includes           | Sensor<br>Mounting plate<br>Assembly parts<br>External temperature sensor with connection cable and connector<br>NTC sensor, length 1.80 m<br>max. cable length 2 m   |
| Connection to the CAN bus | Direct  |
| Interfaces                | 2 x RJ45 CAN bus<br>Jack  |

## Features

|  |  |
|--|--|
| 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                          | internal NTC resistor<br>external NTC resistor   |
| 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                                   | 0.18   |
| Gross weight                                 | 0.18   |
| 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                        | 90269000   |
| EAN  | 4028177659483  |
| ETIM 9                                       | EC002627   |
| ECLASS 8.0                                   | 27189253   |

## Approvals

|           |                    |
|-----------|--------------------|
| Approvals | UL + C-UL (listed) |
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# Approvals

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Explanations

Manufacturer's declaration  
Declaration of conformity

# Tender text

7030.110

CMC III temperature 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 NTC temperature sensor is integrated into the sensor housing to measure the airflow temperature.

An external NTC temperature sensor with connection cable is also enclosed. When this external sensor is plugged in, the internal temperature sensor is switched off.

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:

NTC resistor: 10 k Ohm at 25 °C

Temperature measurement range (internal sensor): 0 °C to 55 °C

Temperature measurement range (external sensor): -40 °C to 80 °C

Measurement precision: +/- 2 °K between 10 °C and 40 °C for external sensor

Resolution: 0.1 °K

Jack for external sensor: 1

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, temperature sensor with 2 m connection cable and plug, quick reference guide and universal mounting set