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## DK 7030.150 CMC III sensors

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FRIEDHELM LOH GROUP



# DK 7030.150 - CMC III sensors

CMC III analog differential pressure sensor

## Features

|                           |  |
|---------------------------|--|
| Model No.                 | DK 7030.150  |
| Design                    | Analog differential pressure 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 differential pressure sensor measures the air pressure at two points in the room and displays the pressure difference between the two measuring points.<br>The two points in the room are defined using a thin hose connected to the sensor.<br>Application: Cold aisle containment, raised floor |
| 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>Analog differential pressure sensor  |
| Connection to the CAN bus | Direct   |
| Interfaces                | 2 x RJ45 CAN bus   |

# 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                          | Differential pressure measurement  |
| Dimensions                                   | Width: 110 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                                   | 0.4 kg   |
| Gross weight                                 | 0.539 kg   |
| PCF per pack (cradle-to-gate)                | 1.6 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                        | 85319000   |
| ETIM 9                                       | EC002627   |
| ECLASS 8.0                                   | 27189253   |
| Product description                          | DK CMC III Analog differential pressure sensor, WHD: 110x30x40 mm  |

# Approvals

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

# Approvals

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Explanations

Manufacturer's declaration  
Declaration of conformity

# Tender text

7030.150

CMC III analogue differential pressure 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.

The sensor is used to monitor the differential pressure for climate control applications, such as raised floor cooling, cold aisle enclosure, etc.

The sensor measures at two measuring points which can be defined via air hoses, e.g. in the cold aisle.

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:

Mode of operation: Differential pressure sensor

Pressure measuring points: 2

Measurement range: -500 Pa to +500 Pa

Measurement precision: +/- 3%

Resolution: 1 Pa

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: 110 x 30 x 40 mm

Included in the pack: Sensor, quick reference guide, 5 m air hose and universal mounting set