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## DK 7010.120 Sensors

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FRIEDHELM LOH GROUP



# DK 7010.120 - Sensors for CMC III, PDU, LCP, IoT interface

The temperature/humidity sensor monitors the ambient temperature and air humidity in the enclosure.

## Features

Model No.	DK 7010.120
Design	Temperature/humidity sensor
Benefits	Fast connection and automatic detection via plug & play Power is supplied via the CAN-BUS interface.
Applications	Enclosure monitoring in IT, industry and facility management Monitoring of enclosures, rooms and containers in the IT environment
Function principle	The temperature/humidity sensor monitors the ambient temperature and air humidity in the enclosure. The sensor has an integrated temperature sensor and an integrated air humidity sensor. Settings can be made via the CMC III processing unit or IoT interface
Material	Plastic
Surface finish	Front: Smooth Enclosure: Textured
Colour	RAL 9005
Supply includes	Sensor Mounting plate Assembly parts
Connection to the CAN bus	Direct
Interfaces	2 x RJ45 CAN bus
Dimensions	Width: 80 mm Height: 30 mm Depth: 40 mm
Operating temperature range	0 °C...55 °C

## Features

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Ambient humidity (non-condensing)	5...95 %
Packs of	1 pc(s).
Net weight	0.093 kg
Gross weight	0.145 kg
Customs tariff number	90269000
ETIM 9	EC002627
Product description	DK Temperature/humidity sensor, connection via CAN bus interface, WxHxD: 80x30x40 mm, RAL 9005

## Approvals

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Approvals	UL + C-UL (listed)
Explanations	Declaration of conformity

# Tender text

Temperature / humidity sensor with CAN bus

Art. 7010120

PU = 1 piece

Compact plastic enclosure with ventilated front, RAL 9005.

The sensor has two RJ45 connectors with an integrated CAN bus. The sensor is automatically recognized by Rittal Embedded Devices, and assigned within the bus sequence with a consecutive number. Integrated multi-color LED as status indicator.

An electronic temperature sensor for temperature measurement in the air flow is integrated in the sensor.

An electronic humidity sensor for measuring relative humidity in the air flow is also integrated.

Power is supplied via the connection to the CAN bus.

The warning and alarm thresholds can be set via the software of the Rittal Embedded Devices, but are stored in the sensor itself.

Technical data:

CAN bus sockets RJ45: 2

Degree of protection: IP 20 according to EN 60 529

Temperature measuring range:

0 °C to + 55 °C

Resolution: 0.1°K

Humidity measuring range: 5% to 95% RH

Resolution: 1% RH

Operating temperature range:

0 °C to + 55 °C

Operating humidity range:

5% to 95% RH non-condensing

WxHxD: 80 x 28 x 40 mm

Included in the PU: Sensor, quick guide and universal mounting kit