

# Rittal – The System.

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## ► Monitoring system CMC III



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W x H x D mm  
 Temperature range  
 Operating humidity range  
 Sensors/CAN bus connection units  
 Max. overall cable length for CAN bus

**Model No. DK**

**CMC III Processing Unit Compact**

**CMC III Processing Unit**

**CAN bus**

Task:	Model No.	PU Compact	PU	Cat. 33, page
		Maximum quantity		

Temperature sensor	1 x integrated into PU			
Access	1 x integrated into PU			

**CMC III sensors for direct connection**

Temperature sensor	<b>7030.110</b>	4	32	773
Temperature/humidity sensor	<b>7030.111</b>	4	32	773
Infrared access sensor	<b>7030.120</b>	4	32	773
Vandalism sensor	<b>7030.130</b>	4	32	773
Analog airflow sensor	<b>7030.140</b>	4	10 <sup>1)</sup>	773
Analog differential pressure sensor	<b>7030.150</b>	4	32	773
Universal sensor (digital input or 4 – 20 mA or S <sub>0</sub> Bus power meter or Wiegand interface)	<b>7030.190</b>	4	32	773

**Interface for CMC II sensors for connecting the following products:**

5 x access sensors (packs of 2), connect a max. of 5 in series	<b>7320.530</b>	4	32	773
1 x smoke detector	<b>7320.560</b>	4	32	773
1 x motion detector	<b>7320.570</b>	4	32	773
1 x voltage monitor 48 V DC	<b>7320.620</b>	4	32	773
1 x leakage sensor	<b>7320.630</b>	4	32	773
1 x leakage sensor, with sensor length 15m	<b>7320.631</b>	4	32	773
1/3 x fire detector and extinguisher system DET-AC Plus with 3 messages	<b>7338.120</b>	4	32	510
1/3 x early fire detector system EFD Plus with 3 messages	<b>7338.220</b>	4	32	510
1/2 x door control system with 2 enclosure channels	<b>7320.790</b>	4	32	779

**Access System**

For connecting the following products:

1 x Ergoform-S handle (electro-magnetic)	<b>7320.700</b>	2	16 <sup>1)</sup>	773
1 x Comfort handle TS 8 (electro-magnetic TS 8 handle with master key function, with and without CCP)	<b>7320.721</b>	2	16 <sup>1)</sup>	773
1 x universal lock	<b>7320.730</b>	2	16 <sup>1)</sup>	777
1 x universal handle	<b>7320.950</b>	2	16 <sup>1)</sup>	773

**Reader units**

1 x CMC III coded lock	<b>7030.220</b>	2	16 <sup>1)</sup>	773
1 x CMC III transponder reader	<b>7030.230</b>	2	16 <sup>1)</sup>	773

**Interface for PSM, PCU, FCS, DRC**

For connecting the following products (note: separate supply via power pack possible):

2 x Fan Control System FCS (DK 7320.812 fan 24 V DC for FCS)	<b>7320.810</b>	1	4 <sup>2)</sup>	777
2 x fan mounting plate DC (universal fan roof W x D 800 x 800 mm with FCS)	<b>7858.488</b>	1	4 <sup>2)</sup>	406
2 x RFID controller DRC	<b>7890.500</b>	1	4 <sup>2)</sup>	787
2 x 4 x Power Control Unit (PCU) 8-way	<b>7200.001</b>	1	4 <sup>2)</sup>	700
2 x 4 x Power Control Unit (PCU) C13/earthing pin LED 6-way	<b>7859.215</b>	1	4 <sup>2)</sup>	700
2 x 4 x Power Control Unit (PCU) C13 LED 8-way	<b>7859.225</b>	1	4 <sup>2)</sup>	700
2 x 4 x Power Control Unit (PCU) C13/19 LED 6-way	<b>7859.235</b>	1	4 <sup>2)</sup>	700
2 x 4 x PSM socket module active PSM C13 8-way	<b>7856.201</b>	1	4 <sup>2)</sup>	385
2 x 4 x PSM socket module active PSM C13/earthing pin 6-way	<b>7856.203</b>	1	4 <sup>2)</sup>	700
2 x 4 x PSM socket module active PSM C13/19 6-way	<b>7856.204</b>	1	4 <sup>2)</sup>	700
2 x 4 x PSM socket module active PSM C13/earthing pin LED 6-way	<b>7859.212</b>	1	4 <sup>2)</sup>	385
2 x 4 x PSM socket module active PSM C13 LED 8-way	<b>7859.222</b>	1	4 <sup>2)</sup>	385
2 x 4 x PSM socket module active PSM C13/19 LED 6-way	<b>7859.232</b>	1	4 <sup>2)</sup>	385
2 x PSM busbar with measurement 16 A	<b>7856.016</b>	1	4 <sup>2)</sup>	384
2 x PSM busbar with measurement 32 A	<b>7856.003</b>	1	4 <sup>2)</sup>	384
2 x PSM measurement module 16 A	<b>7856.019</b>	1	4 <sup>2)</sup>	386

<sup>1)</sup> Max. 5 p. and <sup>2)</sup> max. 1 p. for power supply with PoE or 48 V power pack.

**K**

**K**

**CMC III CAN bus unit for sensor**

For connecting CMC II sensors  
 Max. number of PU C: 4  
 Max. number of PU: 32



**Model No. DK** **7030.100**

**L**

**CMC III CAN bus unit access**

With integral infrared access sensor and interface for one reader III  
 Max. number of PU C: 2  
 Max. number of PU: 16<sup>1)</sup>



**Model No. DK** **7030.200**

**L**

**K**

**K** CAN bus connection cable required

**L** Cables included with the supply

CMC III Processing Unit Compact	CMC III Processing Unit
138 x 40 (1 U) x 120 + 12 (front assembly)	138 x 40 (1 U) x 120 + 12 (front assembly)
0 °C to +55 °C	0 °C to +55 °C
5% to 95% relative humidity, non-condensing	5% to 95% relative humidity, non-condensing
max. 4	max. 32
1 x 50 m	2 x 50 m
<b>7030.010</b>	<b>7030.000</b>

**Material:** Plastic

**Surface finish:**

- Front: Smooth
- Enclosure: Textured

**Colour:**

- Front: RAL 9005
- Enclosure: RAL 7035

**Protection category:**

IP 30 to IEC 60 529

**Supply includes:**

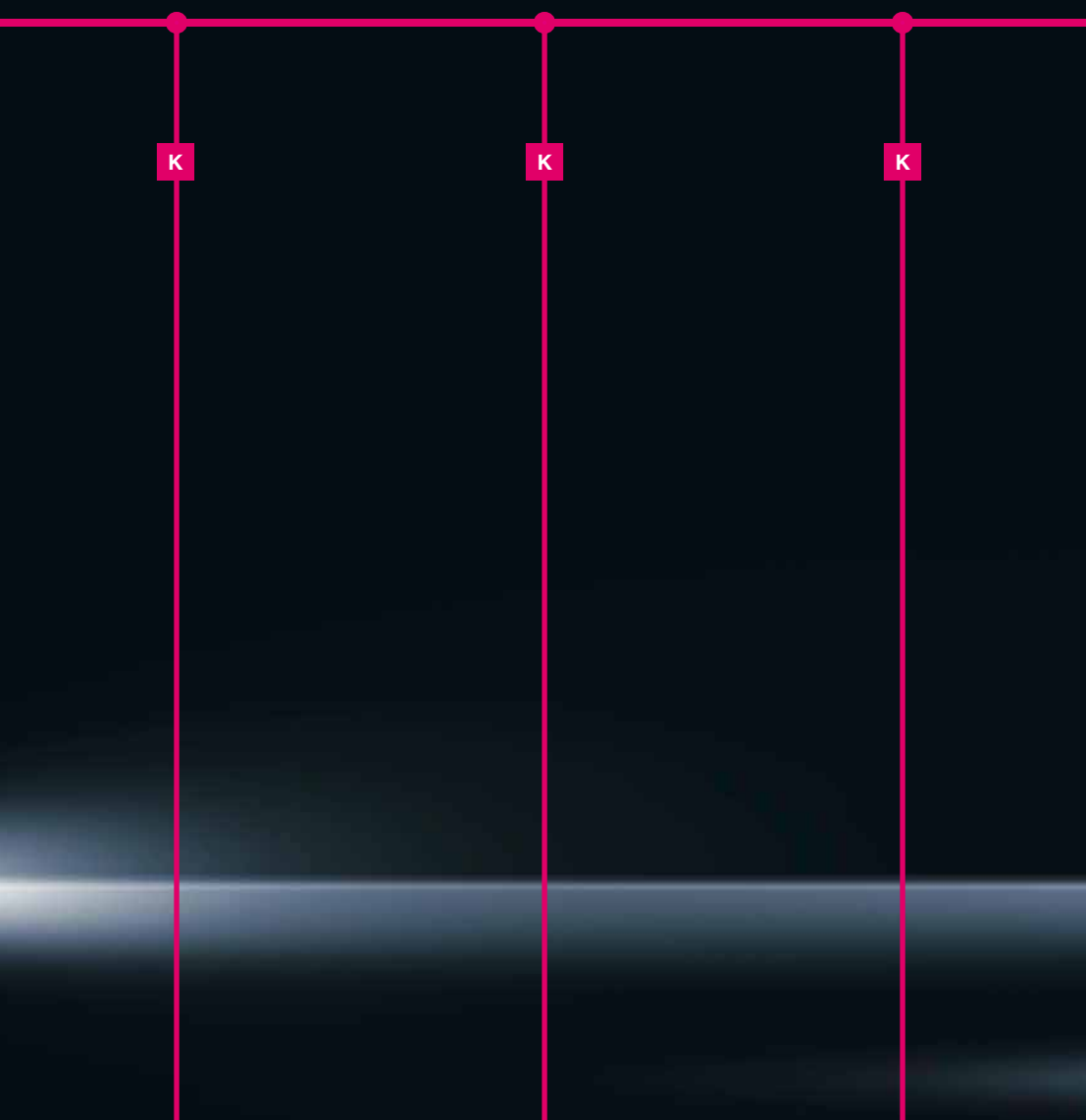
- Basic system
- Quick instructions
- 4 mounting feet

Mounting in **M1**



up to max. 4 bus participants

up to max. 32 bus participants



**Programming cable/USB**

For commissioning the Processing Unit (PU) or PU Compact

Model No. DK **7030.080**

**Only one system may be connected per PU:**

**Display Unit II**

To display alarms and measurement values



Model No. DK **7320.491**

Mounting in **M2**

**ISDN unit**

As a redundant alarm path for SMS messages



Model No. DK **7320.830**

Mounting in **M2**

**GSM Quad Band**

As a redundant alarm path for SMS messages



Model No. DK **7320.820**

Mounting in **M2**

**CMC III CAN bus unit**

**Interfaces unit for connecting CMC II accessories**

Contains 2 channels of the PU II systems: External 24 V DC supply via DK 7030.060 required  
Max. number of PU C: 1  
Max. number of PU: 4<sup>9</sup>



Model No. DK **7030.030**

Mounting in **M1**

**Control units (not with CMC III Processing Unit Compact)**

**CMC III I/O Unit**

8 digital inputs and 4 relay outputs  
Max. quantity: 16



Model No. DK **7030.040**

Mounting in **M1**

**CMC III Power Unit**

Switching and measurement of voltage, power, output and work.  
With 2 outputs  
Also for the activation of AC fans.  
Max. quantity 16



Model No. DK **7030.050**

Mounting in **M1**

## Power supply

### Connection cable to PU



Supplies 24 V to the PU

Packs of	Length	Model No. DK
1	2 m	<b>7320.813</b>

24 V DC available in the enclosure

24 V DC

### 48 V DC power pack



Converts 48 V DC into 24 V DC

Primary input voltage	Output voltage	Model No. DK
48 V DC	24 V DC	<b>7320.435</b>

48 V DC available in the enclosure

### 230 V power pack



Converts 100 to 240 V DC into 24 V DC

CMC III power supply	Model No. DK
CMC III power pack	<b>7030.060</b>
Connection cable	<b>7200.210</b>

100 to 240 V DC available in the enclosure

Mounting in **M1**

## Attachment

### **M1** CMC III mounting unit 1 U



To accommodate PU, PU Compact, control units, CMC III CAN bus unit and CMC III power pack. The mounting unit can accommodate up to 3 units and is secured in the 482.6 mm (19") frame. Optionally for cable clamp DK 7610.000.

	Packs of	Model No. DK
CMC III mounting unit, 1 U	1	<b>7030.070</b>

### CMC III mounting unit



Can accommodate one unit and is mounted on the enclosure frame.

	Packs of	Model No. DK
CMC III mounting unit, for enclosure frame	1	<b>7030.071</b>

### **M2** Mounting unit 1 U



For display, ISDN and GSM unit, fan control system, door control module, dynamic rack controller, for accommodation in the 482.6 mm (19") mounting level. Cable clamp straps DK 7610.000 or DK 7611.000 can be used for cable clamping.

	Packs of	Model No. DK
Mounting unit	1	<b>7320.440</b>
Trim panels	2	<b>7320.441</b>

## Accessories

### **L** Optional Extension cable for sensor cable



Connector/jack	Length	Packs of	Model No. DK
RJ 12	5	4	<b>7200.450</b>
RJ 12	1	2	<b>7320.814</b>

### **K** CAN bus connection cable



This can be used to connect the PU with the CAN bus sensors III, units III, control units III as a bus, and also for cabling together.

Cable CMC III CAN bus	Length (m)	Packs of	Model No. DK
RJ45 connection cable	0.5	1	<b>7030.090</b>
RJ45 connection cable	1	1	<b>7030.091</b>
RJ45 connection cable	1.5	1	<b>7030.092</b>
RJ45 connection cable	2	1	<b>7030.093</b>
RJ45 connection cable	5	1	<b>7030.094</b>
RJ45 connection cable	10	1	<b>7030.095</b>

## Connection cable/extension 230/115 V AC



For connecting to:

- CMC III power pack C13 (DK 7030.060)
- CMC III Power Unit C13
- PCU (Power Control Unit)

**Technical specifications:**  
PVC cable, 3-pole, with IEC connector (non-heating appliances) with contact protection CEE22.

Length: Minimum 1.8 m

Country version	Voltage (V)	Model No. DK
D/F/B/C13	230	<b>7200.210</b>
USA/CDN/C13	230/115	<b>7200.214</b>
IEC 320 device extension C13/C14	230/115	<b>7200.215</b>

# ▶ Monitoring system CMC III – A solution for every task

IT security is now inextricably linked with the Computer Multi Control (CMC) monitoring system – it has become firmly established as a permanent feature of physical IT security, allowing modern IT infrastructures to be operated securely, while at the same time ensuring optimum performance.

The CMC III monitoring system sets new standards with regard to simple assembly and configuration, reduced system complexity, and cost-effectiveness. In order to be able to cover the wide range of potential applications in IT and industry, the CMC III monitoring system is available in two variants:



## CMC III Processing Unit Compact

The compact monitoring solution for applications in industry and building monitoring, or for smaller IT projects with up to four additional CAN bus monitoring components.

## CMC III Processing Unit

The powerful, modularly extendible monitoring solution for demanding IT and industrial environments, with the option of connecting up to 32 additional monitoring components.

## The benefits to you with both variants:

- Minimal cabling work, thanks to bus technology
- Temperature and access sensor, digital inputs and relay output already integrated into the base unit
- Sensors may be connected directly
- Power supply either redundant via two PSUs, directly via 24 V DC with industrial applications, or with Power over Ethernet (PoE).
- Integral OPC server allows direct communication with the control room (BMS or SCADA system)

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RITTAL GmbH & Co. KG  
Postfach 1662 · D-35726 Herborn  
Phone +49(0)2772 505-0 · Fax +49(0)2772 505-2319  
E-mail: [info@rittal.de](mailto:info@rittal.de) · [www.rittal.com](http://www.rittal.com)

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