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## DK 7030.000

## CMC III Processing Units

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# DK 7030.000 - CMC III Processing Units

The Processing Unit/Compact is the central unit of the CMC III monitoring system. Up to 32/4 external sensors/CAN-bus connection units may be linked to the integral sensors. The units are connected to the data network via Ethernet and configured via Web/USB. Alarms are sent via an email server and units are connected to the company's network management system via SNMP.

## Features

|                     |  |
|---------------------|--|
| Model No.           | DK 7030.000  |
| Product description | Central unit of the CMC III monitoring system. In addition, up to 32/4 external sensors/CAN-Bus connection units may be connected additionally to the integral sensors.  |
| Benefits            | High redundancy due to redundant power supply.<br>Cost saving due to optimised space utilisation and connection technique<br>High flexibility due to modular system.<br>High reliability due to permanent monitoring of the physical enclosure parameters. |
| Applications        | Enclosure monitoring in IT, industry and facility management   |
| Function principle  | Central monitoring unit for the CMC III system.<br>Collates measurement data and alerts network management systems or control rooms when freely adjustable limit values are exceeded.<br>Automatic regulation of actuators and control of remote outputs.  |
| Design              | Piezo signal generator for acoustic information<br>Time function thanks to real-time clock with NTP  |
| Material            | Plastic  |
| Surface finish      | Front: Smooth<br>Enclosure: Textured   |
| Colour              | Enclosure: RAL 7035<br>Front: RAL 9005   |

# Features

|                             |  |
|-----------------------------|--|
| Supply includes             | Basic system<br>Temperature sensor including connection cable (supplied loose)<br>Infrared access sensor (integrated)<br>Assembly parts for mounting on surfaces |
| Infrared access sensor      | Yes  |
| Integral temperature sensor | Yes  |
| Interface bus system        | 2 x RJ45 CAN bus   |
| Alarm relay output          | Terminal up to 1.5 mm <sup>2</sup> (max. 24 V DC/1 A)  |
| Interfaces                  | Mini USB<br>1 x USB<br>SD memory card slot (max. 32 GB)<br>2 digital inputs  |
| Mobile website              | For Android and Windows phones   |
| Network interface           | Ethernet to IEEE 802.3 via 10/100BaseT full-duplex, 10/100 Mbit/s, PoE   |
| Interface UPS               | Terminal<br>Jack<br>PoE (Power over Ethernet)  |
| Serial interface            | RJ12   |
| Interface streaming         | Axis network camera with VAPIX® version 3  |
| Number of sensors (max.)    | 32   |
| Note                        | Unencrypted protocols may be deactivated for enhanced network security   |
| LED displays (rear)         | Network status   |
| LED displays (front)        | Status   |

# Features

|                                   |  |
|-----------------------------------|--|
| Protocols                         | TCP/IPv4<br>TCP/IPv6<br>SNMPv1<br>SNMPv2c<br>SNMPv3<br>Telnet<br>SSH<br>FTP<br>SFTP with SSL<br>HTTP<br>HTTPS with SSL<br>NTP<br>DHCP<br>DNS<br>SMTP<br>Syslog<br>LDAP<br>Radius<br>OPC-UA<br>Modbus/TCP<br>RS-232 |
| Dimensions                        | Width: 138 mm<br>Height: 40 mm<br>Depth: 132 mm  |
| Operating temperature range       | 0 °C...45 °C   |
| Ambient humidity (non-condensing) | 5...95 %   |
| Packs of                          | 1 pc(s).   |
| Net weight                        | 0.4  |
| Gross weight                      | 0.64   |
| Customs tariff number             | 85311095   |
| EAN                               | 4028177659322  |
| ETIM 9                            | EC002627   |
| ETIM 8                            | EC002627   |
| ECLASS 8.0                        | 27189253   |

# Approvals

|              |   |
|--------------|---|
| Approvals    | UL + C-UL (listed)                                      |
| Explanations | Manufacturer's declaration<br>Declaration of conformity |

# Tender text

7030.000

CMC III Processing Unit

Packs of 1

Compact plastic housing with ventilated front in RAL 9005.

Housing in RAL 7035. The system monitors IT racks, enclosures or rooms.

The unit is the central element of the CMC III monitoring system. Up to 32 sensors/CAN bus connection units can be connected. The unit can be connected to the data network via Ethernet, can be configured via Web/USB, can send alarms via an e-mail server and can be connected to the Network Management System of a company via SNMP. For industrial applications or for building management, an integrated OPC-UA sensor is available. By means of this unit, the monitoring system CMC III can be connected to the control room system.

Two redundantly configured 24 V DC connections are available for power supply. The system can also be supplied with power via Ethernet. In this case, the bus cables are used to supply the connected CAN bus with energy.

Technical specifications:

WxHxD: 138 x 40 x 120+12 Front mm

Temperature application range:

0 °C to 45 °C

Humidity range:

5% to 95% relative humidity, non-condensing

Protection category: IP 30 to IEC 60 529

Max. CAN bus sensors: 32

CAN bus jacks RJ45: 2

Max. total cable length for CAN bus: 2 x 50 m

Network interface (RJ 45):

Ethernet to IEEE 802.3 via 10/100 BaseT with PoE

Protocols: TCP/IPv4, TCP/IPv6, SNMPv1, SNMPv2c, SNMPv3, Telnet, SSH, FTP, SFTP, HTTP, HTTPS, NTP, DHCP, DNS, SMTP, Syslog, LDAP

USB interface:

- Mini USB for system setting
- For USB stick for data recording and SW updates up to 32 GB

Memory card slot: SD-HC

up to 32 GB for data recording and SW updates

Serial RS232 (RJ 12):

for display or GSM or ISDN unit

Digital inputs (terminal): 2  
Relay output (terminal): 1  
Change-over contact max. 24 V DC, 1 A  
Service/reset button: 1  
Piezo signal generator: 1  
LED display: OK/warning/alarm/network status  
Rated voltage: 24 V DC  
Redundant energy inputs: 3  
(24 V DC jack/terminal/PoE)  
Real-time clock: 24 h energy buffered with condenser  
User administration: LDAP  
User interface:  
Integrated WEB server  
Control room connection:  
Integrated OPC-UA server  
Integrated temperature sensor for airflow applications, optionally with external sensor  
Integrated: Infrared access sensor for distance up to 15 cm.  
Included in the pack: Unit, quick reference guide, side mounting and top-hat rail mounting set