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DK 7030.010 CMC III Processing Units

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ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



DK 7030.010 - CMC III Processing Units

The Processing Unit is the central unit of the CMC III monitoring system. 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

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|---------------------|--|
| Model No. | DK 7030.010 |
| 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. Cost saving due to optimised space utilisation and connection technique High flexibility due to modular system. 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. Collates measurement data and alerts network management systems or control rooms when freely adjustable limit values are exceeded. Automatic regulation of actuators and control of remote outputs. |
| Design | Piezo signal generator for acoustic information Time function thanks to real-time clock with NTP |
| Material | Plastic |
| Surface finish | Front: Smooth Enclosure: Textured |

Features

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|-----------------------------|--|
| Colour | Enclosure: RAL 7035 Front: RAL 9005 |
| Supply includes | Basic system Temperature sensor including connection cable (supplied loose) Infrared access sensor (integrated) Assembly parts for mounting on surfaces |
| Infrared access sensor | Yes |
| Integral temperature sensor | Yes |
| Interface bus system | RJ45 CAN bus |
| Alarm relay output | Terminal up to 1.5 mm ² (max. 24 V DC/1 A) |
| Interfaces | Mini USB 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 Jack PoE (Power over Ethernet) |
| Serial interface | RJ12 |
| Interface streaming | Axis network camera with VAPIX® version 3 |
| Number of sensors (max.) | 4 |
| Note | Unencrypted protocols may be deactivated for enhanced network security |
| LED displays (rear) | Network status |
| LED displays (front) | Status |

Features

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|-----------|--|
| Protocols | TCP/IPv4 TCP/IPv6 SNMPv1 SNMPv2c SNMPv3 Telnet SSH FTP SFTP with SSL HTTP HTTPS with SSL NTP DHCP DNS SMTP Syslog LDAP Radius OPC-UA Modbus/TCP RS-232 |
|-----------|--|

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|------------|---|
| Dimensions | Width: 138 mm Height: 40 mm Depth: 132 mm |
|------------|---|

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|-----------------------------|--------------|
| Operating temperature range | 0 °C...45 °C |
|-----------------------------|--------------|

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|-----------------------------------|----------|
| Ambient humidity (non-condensing) | 5...95 % |
|-----------------------------------|----------|

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|----------|----------|
| Packs of | 1 pc(s). |
|----------|----------|

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|------------|---------|
| Net weight | 0.38 kg |
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|--------------|--------|
| Gross weight | 0.6 kg |
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| Customs tariff number | 85311095 |
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| ETIM 9 | EC002627 |
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| ETIM 8 | EC002627 |
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| ECLASS 8.0 | 27189253 |
|------------|----------|

Features

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| Product description | DK CMC III Processing Unit Compact, Central unit of the CMC III monitoring system, WHD: 138x40x132 mm, max. 4 sensors |
|---------------------|---|

Approvals

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

Tender text

7030.010

CMC III Processing Unit Compact

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 4 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: 4

CAN bus jacks RJ45: 1

Max. total cable length for CAN bus: 1 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

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