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DK 7030.000

CMC III Processing Units

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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. 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

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Features

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	2 x RJ45 CAN bus
Alarm relay output	Terminal up to 1.5 mm² (max. 24 V DC/1 A)
Interfaces	Mini USB 1 x USB SD memory card slot (max. 32 GB) 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.)	32
Note	Unencrypted protocols may be deactivated for enhanced network security
LED displays (rear)	Network status
LED displays (front)	Status

Features

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
Dimensions	Width: 138 mm Height: 40 mm 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 kg
Gross weight	0.64 kg
CRA risk class	Default (Low Risk)
Customs tariff number	85311095
ETIM 9	EC002627
ETIM 8	EC002627
ECLASS 8.0	27189253

Features

Product description	DK CMC III Processing Unit, Central unit of the CMC III monitoring system, WHD: 138x40x132 mm, max. 32 sensors

Approvals

Approvals	Cyber Security Certificate TÜV-tested safety UL + C-UL (listed)
Explanations	Manufacturer's declaration 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