RITTAL	
CMC-TC Master II	DK 7320.005

Instruction manual



1 Notes on the documentation

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1 Notes on the documentation

The audience for this guide is the technical specialists familiar with the assembly, installation and operation of the CMC-TC Master II.

• You must read this operating guide before the commissioning and store it for further use at an accessible location.

Rittal cannot accept any liability for damage and operational malfunctions that result from the nonobservance of this guide.

1.1 Associated documents

In conjunction with this manual, the manuals for other CMC-TC components and their safety notes, etc. also apply.

This manual is also available as file on the accompanying CD-ROM:

German: 7320005VXXd.pdf

English: 7320005VXXe.pdf

To view the manual, you require the Acrobat Reader program that can be downloaded from www.adobe.com.

1.2 Retention of documents

These instructions and all associated documents shall constitute an integral part of the product. They must be supplied to the device operator. The device operator shall be responsible for storage of the documents, to ensure that they are readily available when needed.

1.3 Used symbols

Please observe the following safety instructions and other notes in this guide:

Symbol for an instructed action:

• The bullet point indicates that you should perform an action.

Safety and other instructions:



Danger! Immediate danger to life and limb!



Warning! Potential threat to the product and its environment!

Note! Useful information and special features.

2 Safety notes

Please observe the following general safety notes for the installation and operation of the unit:

- Assembly and installation of the CMC-TC Master II, in particular for wiring the enclosures with mains power, may be performed only by a trained electrician. Other tasks associated with the CMC-TC Master II, such as the assembly and installation of system components with tested standard connectors, and the operation and configuration of the CMC-TC Master II may be performed only by instructed personnel.
- Observe the valid regulations for the electrical installation for the country in which the device will be installed and operated, and their national regulations for accident prevention. Also observe the company-internal regulations (work, operating and safety regulations).
- Before commencing work on the CMC-TC system, it must be disconnected from the mains and prevented from being switched on again.
- Use only genuine or recommended parts and accessories. The use of other parts can void the liability for any resulting consequences.
- Do not make any changes to the CMC-TC Master II that are not described in this guide or in the associated guides.
- The operational safety of the device is guaranteed only when used correctly. The limit values specified in the technical data (see Chapter 14 Technical specifications) may not be exceeded under any circumstances. In particular, this concerns the permitted ambient temperature range and the permitted IP protection category. If used with a higher required IP protection category, the Rittal CMC-TC must be installed in the housing or enclosure with a higher IP protection category.
- The operation of the CMC-TC system in direct contact with water, aggressive materials or inflammable gases and vapours is prohibited.
- Other than these safety notes, also observe the special safety notes contained in the individual sections for the particular tasks.

3 Device description

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The Multi Control Top Concept Master II computer (subsequently called Master II) is an "intelligent" enclosure monitoring system. It is installed in its own housing on the enclosure and uses the attached network interface to perform the complete physical monitoring of the enclosure, i.e. temperature, humidity, shock, smoke, voltage, cooling through to the complete cabinet locking and access control. All this information is transferred with SNMP to the Master II where it can be administered.

3.1 Housing

The CMC-TC Master II is installed in its own housing. The supplied self-adhesive plastic feet can be used to place the device on component shelves. In addition, the two provided top-hat rail brackets with screws can be used to install the device on an existing top-hat rail.



Fig. 1 CMC-TC Master II front side

Key

- 1 Serial interface (programming)
- 2 Monitor connection
- 3 USB connection for camera
- 4 Serial interface (RS-232 connection)



Fig. 2 CMC-TC Master II rear side

Key

- 1 Serial interface (for future expansions)
- 2 PS/2 connection for keyboard
- 3 PS/2 connection for mouse
- 4 10/100 BaseT network connection
- 5 USB connection
- 6 Power supply connection
- 7 Reset pushbutton

3.2 Power supply

The CMC-TC Master II is supplied with power using an external power pack. The connection cable for the external power pack is available as accessory in various country variants. Select the connection cable as appropriate for the country-specific regulations. A selection of various connection cables is contained in Section 3.6 Accessories.

All connected devices, such as keyboard, mouse and USB cameras, are supplied with power from the CMC-TC Master II.

3.3 Network characteristics

The Master II has a 10/100BaseT Ethernet network connection supported with the following protocols:

- using RS232 serial interface, e.g. Hyperterminal
- In the Ethernet network: e.g. using TELNET
- SNMPv1, compatible with common management systems
- TFTP
- HTTP

The network connection is made using a suitable network cable with RJ-45 plug in the existing Ethernet network structure.

The communication is made using a standard browser and so is independent of the operating system.

The number of Rittal CMC-TC Processing Units which can be monitored in the network is limited to a maximum of ten, provided adequate free IP addresses are available in the network. This distributed configuration allows you to also realise monitoring for enclosure suites without needing any large cabling effort.

The network protocols are used for communication (password query, switching commands, status queries, and alarm signals) between the Rittal CMC-TC Master II, the administrators and the users in the network (network/ internet/ intranet).

The SNMP functionality is also independent of the operating system, only the network management protocol must support SNMP V 1.0. In addition, the Rittal CMC-TC Master II is supporting the Standard-MIB II. The private MIB is part of the scope of supply. Further information is provided on the supplied CD-ROM (CMC-TC-Master1_1.mib).

The private MIB is required for integration in a building management software. It decodes the transferred trap messages to produce unique messages.

3.4 System prerequisites

- Hardware: PC with serial interface and 10/100 MBit network card.
- Software: Operating system (Linux or Windows), Browser (IE 6.0 or equivalent).

3.5 Scope of supply

The unit is supplied in a packaging unit in a fully assembled state.

- Please check the delivery for completeness.
- Check the packaging carefully for any signs of damage.

Quantity	Description
1	CMC-TC Master II with network interface RJ -45 socket (10/100 BaseT)
2	Top-hat rail brackets
1	CD-ROM with software and operat- ing manual
1	Null-modem cable
1	GSM unit adaptor cable
1	Master II power pack
1	Checklist for the commissioning (German/English)

Tab. 1 Scope of supply

3.6 Accessories

3.6.1 Required accessories

Depending on the country-specific specifications, you require an appropriate connection cable for the power pack of the CMC-TC PU.

Acces- sories	Description	P. of	Re- quired	Model no.
Connec- tion cable for power pack	IEC plug con- nection cable Country variant (D)	1		7200.210
puok	IEC plug con- nection cable Country variant (GB)	1		7200.211
	IEC plug con- nection cable Country variant (F/B)	1	Yes, once for	7200.210
	IEC plug con- nection cable Country variant (CH)	1	the power pack 7200.21	
	IEC plug con- nection cable Country version USA/CDN, UL approval FT1/VW1	1		7200.214
	Extension cable IEC connector and socket	1		7200.215
Assem-	Component shelf	1		7119.400
ыу	Top hat rail (length: 187 mm)	10	Optional	2315.000
Connec- tion cable	RJ45 connection cable	1	Yes, 1 x for net- work connec- tion	7320.472

Tab. 2 Required accessories

4 Assembly

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3.6.2 Optional accessories

Accessories	Max. required number of items	Model no.
Rittal USB camera	2	on request
GSM unit	1	7320.820

Tab. 3 Optional accessories

3.7 Proper usage

The Rittal CMC-TC Master II serves as an enclosure monitoring system for the monitoring and administration of various enclosure parameters.

Any use other than that described here shall be deemed improper. Rittal cannot accept any liability for damage resulting from the improper use or the non-observance of this guide. Where applicable, the instructions for any accessories used shall also apply.

4 Assembly

4.1 Assembly instructions

Install the CMC-TC Master II in an enclosure or in a suitable housing system so that it also has additional protection from external effects. Also take account of the permitted ambient temperature and humidity operational ranges, and the applicationrelated required IP degree of protection (see Chapter 14 on page 31).



Warning!

The "top-hat rail" assembly type is recommended because this attachment form allows optimum heat dissipation of the system. This also increases the lifetime of the system.

4.2 Assembly on a 2 U component shelf

You can assembly the CMC-TC Master II on a component shelf, which, however, is not included in the scope of supply, refer to Section 3.6.1 Required accessories.



Fig. 3 Assembly of the rubber feet (lower side)

Key

1 Holes for the assembly of the adjustable feet Screw the supplied adjustable feet to the lower side of the CMC-TC Master II.



Fig. 4 Assembly on a 2 U component shelf

Key

- 1 CMC-TC Master II
- 2 Screwed adjustable feet
- 3 2 U component shelf with holes, model no. 7119.400
- Place the CMC-TC Master II on the component shelf.

4.3 Installing on a top-hat rail

The CMC-TC Master II can be installed on a normal top-hat rail. For the heat dissipation, the system must have a free space 10 cm above and below and this space may not contain any components. The cooling fins must be arranged vertical.



Fig. 5 Installation of the top-hat rail brackets

Key

- 1 Fastening holes for top-hat rail brackets
- Screw the top-hat rail at the required position in the enclosure.
- Remove the supplied top-hat rail brackets and two screws from the scope of supply.
- Screw the top-hat rail brackets to the lower side of the CMC-TC Master II (see Figure 5).
- Latch the CMC-TC Master II onto the top-hat rail.

5 Installation



Danger! Assembly and installation may only be performed by properly trained specialists.

5.1 Safety and other notes

- The Rittal CMC-TC Master II may be operated only with connected protective earth conductor. The protective conductor connection is made by inserting the IEC connection cable. This requires that the IEC connection cable is connected with the protective conductor at the mains side.
- The electrical connection voltage and frequency must conform to the rated values specified at the rear of the power supply unit and in the technical specifications (see page 31).
- Before commencing work on the Rittal CMC-TC Master II, it must be disconnected from the mains power supply and protected against being reconnected.
- Protect the connection cables using cable ties on the used housing or enclosure.

5.2 Connecting the power supply



Fig. 6 CMC-TC Master II voltage connection

Key

- 1 Voltage supply connection
- 2 Operating LED

You must connect the CMC-TC Master II power pack using the connection cable specified in Section 3.6.1 Required accessories, to the voltage supply.

• Insert the power pack plug in the "Power" socket of the CMC-TC Master II. Ensure that the locking mechanism latches.

The plug latches itself. After being connected to the voltage supply, the CMC-TC Master II automatically begins a boot task that takes approximately three minutes. Once it has completed, the operating LED illuminates orange.

To remove the connection plug, press down the locking mechanism and pull the plug out of the CMC-TC Master II.

5.3 Establishing the network connection



Fig. 7 Establishing the network connection

Key

- 1 Network connection
- Use the RJ45 network cable to connect the CMC-TC Master II with the existing Ethernet network structure.

The network connection is established as soon as the Link LED lights green or orange. In addition, the green Link LED starts to blink when data exchange occurs over the network.

5.4 Connecting the programming interface

If you want to configure the CMC-TC Master II, for example, using a notebook, you can connect both devices with each other using the serial interface (COM1).



Fig. 8 RS-232 connection

Key

- 1 Serial interface (RS-232 connection)
- Connect the programming cable (null-modem cable) with the COM1 interface and with the serial interface of your PC.

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Once you have assembled the CMC-TC Master II and installed all connections, you must now configure it. You can do this using the serial interface (see 5.4 Connecting the programming interface), the network connection with an internet browser (see 7.4 Access using a browser) or Telnet (see 8 Access using Telnet).

You must first establish the connection to the CMC-TC Master II. This is shown below using the Hyper-Terminal program, part of the Microsoft Windows 2000 operating system, as example. The process is similar for other operating systems.

To start "HyperTerminal", click < Programs> - < Accessories> - <Communication> - <HyperTerminal>



Fig. 9 Enter a name and select a connection

- Enter name.
- Assign the icon for the connection.

Verbinden mit		? ×
🧞 cmc		
Geben Sie die Ru	fnummer ein, die gewählt werden soll:	
Land/Region:	Deutschland (49)	7
Ortskennzahl:	02772	
Rufnummer:		
Verbinden über:	COM1	•
	OK Abbrec	hen

Fig. 10 Build connection

- · Select the connection using COM port.
- Click "OK".

The properties of the selected COM port are requested once.

schaften von COI	41		
chlußeinstellungen			
Bjts pro Sekunde:	9600		•
<u>D</u> atenbits:	8		•
<u>P</u> arität:	Kein	e	•
S <u>t</u> opbits:	1		•
Pr <u>o</u> tokoll:	Kein		
		<u>S</u> tandard wieder	hersteller
0	ĸ	Abbrechen	Überne

Fig. 11 COM port properties

- · Enter the following parameters:
- Transmission rate: 9600 bits per second
- Data bits: 8
- Parity: None
- Stop bits: 1
- Protocol: None

The standard level range must be observed for the RS-232 interface, otherwise it is possible that the data will be transferred incorrectly.

The HyperTerminal login window appears.

If you do not see the login, press the Enter key on your keyboard once.



Fig. 12 Login

You must enter your login name (IP address login) and your password here. The default factory setting for both is "cmc". Press Enter to confirm each of your inputs.

- Enter your login name (IP address login) and your password.
- Press Enter to confirm each of your inputs.

You can change the login name and the password subsequently (see Section 7.3.7 Configuring passwords).

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Fig. 13 HyperTerminal start window

Once you have been able to establish the connection to the CMC-TC Master II, the CMC-TC Master II start window appears.

Press the ESC key to reach the CMC-TC Master II configuration menu.

7 Operation

7.1 Becoming familiar with the menu structure

The menu structure of the terminal program has the following form:

1 Network Configuration			
1.1 IP Configuration	1.3 SNMPv1 Access		
1.1.1 IP Address	1.4 Enable TFTP		
1.1.2 IP Subnet Mask	1.5 Read Community		
1.1.3 IP Def. Gateway	1.6 Write Community		
1.2 Trap Receiver Configuration	1.7 System Name		
1.2.1 IP Trap Receiver	1.8 System Contact		
1.2.2 Disable	1.9 System Location		
1.2.3 IP Trap Receiver	1.A Change User Passwords		
1.2.4 Disable	1.A.1 Password of User 'cmc'		
1.2.5 IP Trap Receiver	1.A.2 Password of User 'admin'		
1.2.6 Disable	1.B Telnet Timeout Minutes		
1.2.7 IP Trap Receiver	1.C Enable/Close Telnet		
1.2.8 Disable	1.G Activate Actual Values		
2 IP Addresses of Devices			
2.1 IP Address of Device 1	2.6 IP Address of Device 6		
2.2 IP Address of Device 2	2.7 IP Address of Device 7		
2.3 IP Address of Device 3	2.8 IP Address of Device 8		
2.4 IP Address of Device 4	2.9 IP Address of Device 9		
2.5 IP Address of Device 5	2.A IP Address of Device 10		
3 Setup of connected devices			
3.1 Name of the found unit	3.6 Name of the found unit		
3.2 Name of the found unit	3.7 Name of the found unit		
3.3 Name of the found unit	3.8 Name of the found unit		
3.4 Name of the found unit	3.9 Name of the found unit		
3.5 Name of the found unit	3.A Name of the found unit		

Fig. 14 Menu structure

7.2 Operating notes

The following sections list as tables all the configuration parameters of the CMC-TC. The basic operation is always the same:

- Use the "up" ↑ and "down" ↓ arrow keys to navigate within the menu structure.
- Use the "left" ← and "right" → arrow keys to scroll within fields that have several default values.
- Enter from the keyboard any required data in fields for text or numeric information.
- The "Esc" key can be used to cancel your inputs.
- Press "Return" or "Enter" to confirm all inputs.

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7.3 Setting the base configuration

You only need to set the network configuration, the alarm relay and the trap receiver for the base configuration. You can make further settings from a browser or using Telnet.

7.3.1 Network configuration

You can use this menu to change your network settings.

Navigation		
Main menu – 1 IP Configuration		
Parameter	Explanation	
IP Address	Enter your IP address (factory setting 192.168.0.190).	
IP Subnet Mask	Enter your IP subnet mask address (factory setting 255.255.255.0).	
Default Gate- way	Enter the IP for the router (fac- tory setting 0.0.0.0).	

To activate the settings, you must activate these entries.

Navigation		
Main menu – D Activate Actual Values		
Parameter Explanation		
Activate actual values	Activate new values: select "Yes" and press the "Return" key to accept the settings.	

7.3.2 Configuring the trap receiver

To obtain messages and notifications, so-called trap messages, of the CMC-TC Master II, the IP address of the console on which the management software package (e.g. HP OpenView) is installed, must be entered. The management software must support the SNMP protocol.

Navigation		
Main menu – 2 Trap Receiver Configuration		
Parameter	Explanation	
IP Trap Re- ceiver	Enter the IP address of the messages recipient (factory setting 0.0.0.0).	
Disable	Enable or disable the IP trap receiver with the \leftarrow (enable) and \rightarrow (disable) arrow keys.	

Enter any other required receivers (maximum four) in the lines available below.

7.3.3 Configuring SNMP access

Management software that supports SNMP (e.g. HP Open View or CMC-TC Manager) can access the CMC-TC Master II via the network.

Navigation	
Main menu – 3 Enable SNMP Access	
Parameter	Explanation
Enable SNMP access	Enable or disable the SNMP access with the \leftarrow and \rightarrow arrow keys.

7.3.4 Configuring the TFTP access

The TFTP access is used exclusively for uploading software updates. It can remain deactivated for normal usage.

Navigation		
Main menu – 4 Enable TFTP		
Parameter	Explanation	

7.3.5 Configuring the read/write community

To make the settings for a management software system on the CMC-TC, you must set the community of the Processing Unit and the management software.

Navigation

Main menu – 5 Read Community / 6 Write Community

Parameter	Explanation
5 Read Com- munity	Set the read community for the trap sending. Press the Back-space key to clear the factory setting and enter the new name.
6 Write Com- munity	Set the write community for the trap sending. Press the Back-space key to clear the factory setting and enter the new name.

7.3.6 Configuring system name, contact and location

A unique name, a contact address (e-mail) and a location can be entered for the CMC-TC Master II.

Navigation

Main menu – 7 System Name / 8 System Contact / 9 System Location

Parameter	Explanation
7 System Na- me	The CMC-TC Master II can be given any name. Press the Backspace key to clear the factory setting and enter the new name.
8 System Con- tact	Set the contact address (e.g. xyz@rittal.de). Press the Back- space key to clear the factory setting and enter the new name.
9 System Lo- cation	Enter the name of the installa- tion location. Press the Back- space key to clear the factory setting and enter the new name.

7.3.7 Configuring passwords

You can change the passwords of the CMC-TC Master II as required. The string length must not exceed 20 characters. Special characters are not permitted.

Navigation	
Main menu – A Change User Passwords	
Parameter	Explanation
1 Password of User ´cmc´	Set the password for the 'cmc' user (max. 20 characters). Press the Backspace key to clear the factory setting and enter the new password.
2 Password of User ´admin´	Set the password for the 'admin' user (max. 20 charac- ters). Press the Backspace key to clear the factory setting and enter the new password.

7.3.8 Configuring the timeout window

The Telnet Timeout window is used for the automatic logout after a defined time. If, for example, a user has not performed any action on the CMC-TC Master II over a period of five minutes, the user will be logged off automatically.

Navigation

 Main menu – B Telnet Timeout Minutes

 Parameter
 Explanation

B Telnet time- out minutes	Set the Timeout function in minutes.
	0 = no timeout
	5 = when no changes have been made within the previous five minutes. Press the Back- space key to clear the factory setting and enter the new time.

7.3.9 Configuring Telnet access

When you use Telnet, you have the same administrative rights as for the serial interface. If access is not to be made using Telnet, you can deactivate it.

Navigation		
Main menu – C Enable/Close Telnet		
Parameter	Explanation	
C Enable / Close Telnet	Use the \leftarrow and \rightarrow arrow keys to enable or disable Telnet.	

7.3.10 Saving and activating the settings

To accept and save all changes and network settings, the network interface must be restarted.

Navigation	
Main menu – D Activate Actual Values	
Parameter	Explanation
D Activate actual values	Use the \leftarrow and \rightarrow arrow keys to perform a restart (Yes) or not (No).

7.3.11 Entering the units to be monitored

You must enter in the Master the units to be monitored. This is done as follows:

Navigation	
Main menu – 2 IP Addresses of Devices	
Parameter	Explanation
1-10 IP ad- dress of device 1 – 10	Enter the IP addresses to be monitored by the CMC-TC Mas- ter II. Press the "Backspace" key to clear the factory setting and then enter the new IP ad- dress.

7.3.12 Access to the entered units

By selecting the individual units, you can access directly from the CMC-TC Master II to the Telnet menu of the respective unit in order to customise it to the system or to configure it.

Navigation

Main menu – 3 Setup of Connected Devices	
Parameter	Explanation
1-10 entered Processing Units	Select the Processing Unit that you want to access. Select it with the arrow keys or with the numeric block. Press the Enter key to confirm.

7.4 Access using a browser

Call your web browser as usual. Enter the IP address of the CMC-TC Master II in the address field and start building the page.

7.4.1 Login



Fig. 15 Login window

Key

- 1 Wait
- 2 Go to the login page
- Click "Go to Login Page"



Fig. 16 Windows security notification

Key 1

Yes

- 2 No
- 3 Display certificate
 - A security notification appears. You can confirm this by clicking the "Yes" button.



Fig. 17 Windows security notification

Key

- 1 Name (factory setting: admin)
- 2 Password (factory setting: admin)
- 3 Login button
 - Enter your user name and your password in the appropriate fields. To confirm, click the Login button. (Factory setting: name and password: admin)

7.4.2 Main page view



Fig. 18 Main page view

Key

4

- 1 Company logo, contact address and video frame
- 2 Main window
- 3 CMC-TC Master II hardware and software version
 - Logged in CMC-TC Processing Units

7.5 Base settings



Fig. 19 Main settings

Key

- 1 Admin
 - You can use this link to make all main settings.
- 2 General setup: set the network configuration, system time, SNMP configuration and Telnet options. User management: user names, passwords and access rights.

Alarm notification receiver: IP addresses of the trap and e-mail recipients.

Remote shutdown settings: shutdown Windows systems.

Alarm actions: define possible alarm actions. Webcam Settings: number, configuration of the Web cameras; download saved images.

Logfile management: download and delete the log file.

Overview page setup: add background image; position the Processing Units for the background image.

Update connected devices: update the attached Processing Units.

Firmware update: update the CMC-TC Master II.

7.5.1 General setup



Fig. 20 General setup window

Key

- IP configuration 1
- 2 System time setup
- SNMP configuration 3
- 4 **Telnet** options

Navigation	Navigation	
General Setup – IP Configuration		
Parameter	Explanation	
IP Address	Currently entered IP address. To change the address, click in the field and press the Back- space key to clear the IP ad- dress. Enter the new IP ad- dress.	
Netmask	Currently entered network mask. To change the address, click in the field and press the Backspace key to clear the network mask. Enter the new network mask.	
Default Gate- way	Currently entered gateway. To change the address, click in the field and press the Backspace key to clear the gateway. Enter	

the new gateway.



Note!

Once the IP configuration has been completed, you must click the Change IP Configuration button. This accepts the changes. To access the master again, you must login with the new IP address using your browser.

Navigation	
Admin – General Setup – System Time Setup	
Parameter	Explanation
Date	Currently entered date. To change the date, click in the field and press the Backspace key to clear the date. Enter the new date. Ensure the correct input format is used.
Time	Currently entered time. To change the address, click in the field and press the Backspace key to clear the time. Enter the new time. Ensure the correct input format is used.
Time zone	Currently entered time zone. To change time zone, click the scroll field and set your current time zone.
Daylight saving time Begin/End	Currently entered daylight- saving time begin/end. Enter the appropriate begin for the daylight saving.

EN

EN

Poll time from If you use an NTP server, you can enter the IP address of the NTP server here.

Note!

.. . ..

NTP server

Once the system time setup has been completed, you must click the Change Time Settings button. This accepts the changes.

	location. To change the pass- word, click in the field and press the Backspace key to clear the input. Enter the new location.
System description	These fields show the descrip- tion, the serial number, the hardware version and the soft- ware version of the device. These details are important when support is requested.

Navigation		
Admin – General Setup – SNMP Configuration		
Parameter	Explanation	
Enable SNMP access	You give here the master ac- cess to SNMP in the network. To do this, check the appropri- ate field.	
Read commu- nity	Password assignment for SNMP commands. You specify here the password that the Master should use to access the Processing Units. The passwords must be identical on the CMC-TC Master and on the Processing Unit. To change the password, click in the field and press the Backspace key to clear the input. Enter the new password.	
Write commu- nity	Password assignment for SNMP commands. You specify here the password that the Master should use to access the Processing Units. The passwords must be identical on the CMC-TC Master and on the Processing Unit. To change the password, click in the field and press the Backspace key to clear the input. Enter the new password.	
System name	You can give the CMC-TC Mas- ter II a unique name should you use several CMC-TC Masters.	
System contact	Enter the contact e-mail ad- dress of the person responsible for the system. To change the password, click in the field and press the Backspace key to clear the input. Enter the new e- mail address.	
System location	To quickly find the Master in the data centre, you can enter the	

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ll_	3	

Note!

Once the SNMP configuration has been completed, you must click the Change SNMP Configuration button. This accepts the changes.

Navigation	
Admin – General Setup – Telnet Options	
Parameter	Explanation
Telnet timeout minutes	Enter here how long the Telnet access should be retained whi- le no further input is being ma- de (0 = no timeout, 100 = time- out after 100 minutes). To change the password, click in the field and press the Back- space key to clear the input. Enter the new time.
Enable Telnet	If you want to block the access via Telnet, activate the check- box.

Note!

Once the Telnet options have been completed, you must click the Change Telnet Options button. This accepts the changes.

7.5.2 Create users and assign rights



Fig. 21 User management

Key

- 1 User setup: create users and assign rights
- 2 User login settings: login settings

Navigation

Admin – User Management – User Setup	
Parameter	Explanation
Name	Enter the name of the user or the user group.
Password	Enter the password for the user or user group (special charac- ters not permitted).
Read	If a user should have only read rights, click the read function.
Write	If a user should have read and write rights, click the write func- tion.
Admin	If a user should have all rights, click the Admin function.
Delete user	To delete a user from the list, activate the "Delete User" checkbox.



Note!

Once the User setup has been completed, you must click the Change button. This accepts the changes.

Navigation

-	
Admin – User Management – User Login Settings	
Parameter	Explanation
Allow multiple read/write us- ers logged in	If two users with read and write should be able to access the Master, activate the checkbox.
HTTP session timeout	You can specify how long each user is allowed to remain log- ged in to the CMC-TC Master II.

	To do this, click in the Window, press the Backspace key to clear the previous setting and enter the required time interval. The time is specified in min- utes.
Allow relogin with the same user name	If a logged in user does not logoff from CMC-TC Master II, but only closes the browser window, the user can login again from a workplace with his/her user account. To allow this capability, activate the checkbox.



Note! To save the settings, you must click the Change Settings button.

7.5.3 Entering the alarm recipient

The CMC-TC Master II can send alarms to receiver stations using SNMP. A maximum of four different receiver stations can be specified. In addition, a maximum of four different e-mail addresses for alarm forwarding can be specified.



Fig. 22 Alarm notification receiver

Key

- 1 Trap receiver configuration
- 2 E-mail server configuration
- 3 E-mail receiver configuration
- 4 Windows popup message receiver configuration

Navigation

Admin – Alarm Notification Receiver – Trap Receiver Configuration

Parameter	Explanation
IP trap receiver 1 – 4	Enter the IP address of the alarm receiver. If this IP ad- dress is to receive alarms, acti- vate the Enable checkbox.

> Note!

To save the settings, you must click the Change Configuration button.

Navigation		
Admin – Alarm notification receiver – E-mail server configuration		
Parameter	Explanation	

> Note!

To save the settings, you must click the Change E-mail Server Configuration button.

Navigation	
Admin – Alarm notification receiver – E-mail re- ceiver configuration	
Parameter	Explanation
E-mail address 1 - 4	Enter the e-mail address of the recipient. If this recipient is to receive e-mails, activate the Enable checkbox.

Note!

To save the settings, you must click the Change E-mail Server Configuration button.

Navigation	
Admin – Alarm notification receiver – Windows popup message receiver configuration	
Parameter	Explanation
IP Address 1 - 4	Enter the IP address of the recipient who in the case of an alarm is to receive a popup window. If this recipient is to receive a popup window, acti- vate the Enable checkbox.

Note!

To save the settings, you must click the Change Configuration button.

7.5.4 Settings for a shutdown

You can shutdown the computer should an alarm be issued.



Fig. 23 Remote shutdown setup

Key 1

Configuration window for a shutdown

Navigation	
Admin – Remote Shutdown Settings – Create New Shutdown Setting	
Parameter	Explanation
Shutdown type	Select whether the computer has Windows or a Linux as operating system.
Description	Enter a description of the shut- down.
IP address	Enter the IP address of the computer to be shutdown.
3	Enter the user name of the person logged in on the computer.
User password	Enter the password of the com- puter for which you have en- tered the user name.
Domain name	Enter the domain in which the computer is located.
Delay time	Enter a delay time (in seconds) after which the computer should be shutdown after the Shut- down command has been en- tered.
Message	Enter a message to be dis- played in the popup window when the computer is shut- down.
Force closing of applications	If running programs should be closed when a Shutdown com- mand is issued, activate the checkbox.

> Note!

To save the settings, you must click the Change Configuration button.



Fig. 24 Shutdown overview window

Key

1 Description of the shutdown configuration

As shown above, you can now see the configuration for a Shutdown command.

- Click "Delete" to delete the configuration.
- To change the configuration, click "Change".
- To test a shutdown, click "Test".

7.5.5 Configuring alarm actions

You can configure various alarm actions on the CMC-TC Master II. Click the "Create a new alarm action" link.



Fig. 25 Alarm action configuration

Key

1 Configure alarm action

Navigation

Admin – Alarm A tion	ctions – Create New Alarm Ac-
Parameter	Explanation
Name	Select a name for the alarm action.
Device	Click the pulldown menu and select the unit that is to perform an alarm action.
Object	Click the pulldown menu and select the sensor that is to per- form an alarm action.
Action	Click the pulldown menu and select the action the sensor is to perform for an alarm.

Note!

To save the settings, you must click the Save Action Definition button.

The overview window now shows the alarm configuration. To change, delete or perform the action, proceed as follows.



Fig. 26 Alarm action overview window

Key

- 1 Description of the alarm action configuration
- Click "Delete" to delete the configuration.
- To change the configuration, click "Change".
- To disable the alarm action, click "Disable". To enable the alarm action, click "Enable".

7.5.6 Webcam setup

A maximum of two USB Webcams can be connected to the CMC-TC Master. Only Rittal-approved Webcams may be used. To setup the Webcams, proceed as follows.



Fig. 27 Webcam configuration

Key

1 Overview window for the Webcam configuration

Navigation	
Admin – Webcar tion	n Settings – Webcam Configura-
Parameter	Explanation
Number of connected Webcams	Enter the number of connected USB Webcams.
Save single images	Save the single images. Activate the checkbox here to save images on the Master.
Storage inter- val	Enter the storage interval for the images.
Keep images in time range	Enter here how long the images should remain saved on the hard disk.

Approximate number of images	The calculated value of the images stored on the hard disk.
Images size	Select the image size.
Store images to	Select on which storage the images are to be stored.
FTP server	Enter the IP address of the FTP server. Required only when images are to be stored on an FTP server.
FTP user na- me	Enter the user name for the FTP server.
FTP user password	Enter the password for the FTP server.
Path on FTP server	Define the path in which the images are to be saved.
Delete old images on FTP server	Activate the checkbox when the stored images on the FTP server are to be deleted.
Images to save as alarm action (before)	You can specify here how many images prior to an alarm are to be saved.
Images to save as alarm action (after)	You can specify here how many images after an alarm are to be saved.
Store alarm action images to	You specify here where the alarm images are to be stored.
Delete alarm images older than	You specify here after how many days the alarm images are to be deleted.
Delete alarm images on FTP server	If you also want the alarm im- ages on the FTP server to be deleted, activate the checkbox.



Note!

To save the settings, you must click the Change Webcam Configuration button.

7.5.7 Creating image archives and store externally

Stored images can be saved in an archive on the Master. You can then save the archive on an external storage medium. To do this, proceed as follows.



Fig. 28 Create and store image archive

Key

•

- 1 Create image archive
- 2 Download the image archive
- 3 Delete the image archive
- 4 Delete non-archived images (optional)
 - Select which type of images is to be packed in an archive (regular images or alarm images). The packing can take several minutes.
 - Now click "Download archive". The archive will be loaded from the master.
 - Use a Zip program to open the "image.tar" file. You now see the individual downloaded images of the archive.
 - To delete the archive, click "Delete archive". This deletes the archive on the Master.
- Optionally, you can select which images that have not yet been archived are to be deleted. Click either the "Regularly saved images" or the "Alarm action images" button.

7.5.8 View, store and delete log file

Each alarm is stored in a log file. and proceed as follows:



Fig. 29 Create and store image archive

Key

- 1 Create image archive
- 2 Download the image archive
- 3 Delete the image archive

Navigation	
Admin – Log file	management
Parameter	Explanation
Show log file	To view the stored events, click "Show log file". Click the "Go Back" link to go back one step.
Download log file	To store the log file, click "Download log file". You will now be requested to store the text file. To do this, click "Save".

	Specify in which path the file is to be stored.
Clear log file	To delete the logfile, click "Clear log file".

7.5.9 Configure overview window

You can upload any background image for the overview window to the CMC-TC Master II. You can then position the Processing Units appropriately. and proceed as follows:



Fig. 30 Configure overview window

Key

- 1 Upload background image
- 2 Processing Unit representation
- 3 Position window for the Processing Unit
- To upload a background image to the CMC-TC Master II, click "Find". Select the path and the image that you want to use as background image.
- Then click "Upload". After the upload, the image appears in the Overview window.
- You can position the Processing Units as required. Click with the left-hand mouse key once on the Processing Unit and drag the Processing Unit to the required position. Alternatively, you can enter the values for the xand y-position in the fields. Once you have entered all values for the position, click "Save".

7.5.10 Update CMC-TC Master II

Updates for the Master II will be regularly available in the Internet.

Look regularly on the page:

http://www.rimatrix5.com/service_support/downloads.asp (Security area) and check your CMC-TC master software. To load the update to the Master, proceed as follows:



Fig. 31 Update CMC-TC Master II

Key

- 1 Activate CMC-TC Master TFTP server
- 2 Information window for the upload
- 3 Start installation and perform restart

Navigation	
Admin – Firmwa	re Update
Parameter	Explanation
Activate TFTP server of the Master unit	Activate the checkbox in the first step. Then click "Change TFTP server settings".
Upload the "update.tar.gz" file to the mas- ter unit via TFTP	Now use TFTP to load the firmware update to the CMC- TC Master II. tftp-i 192.168.30.100 put up- date.tar.gz
3rd step:	Click "Setup and reboot". The firmware update will now be installed on the CMC-TC Mas- ter II. Once the installation has completed, the CMC-TC Master performs a reboot.

7.6 Configuring alarm conditions

You can create an alarm condition for each sensor status. For example, a computer should perform a shutdown when a temperature sensor issues an alarm. To do this, proceed as follows:



Fig. 32 Alarm condition overview

Key

- 1 Alarm condition
- 2 Link to create a new condition

Navigation	
Alarms	
Parameter	Explanation
Create a new alarm condition	Click the "Create a new alarm condition" link.



Fig. 33 Setup alarm condition

Key

- 1 Select the condition
- 2 Add "And" or "Or" function and time window
- 3 "Save and continue" button

Navigation

Alarms – Alarm (Condition
Parameter	Explanation
Logic	And-Or operation (appears only when an extended condition has been selected).
Device	Select the Processing Unit on which the sensor is logged in.
Unit	Select the sensor unit to which the sensor is connected.
Sensor	Select the sensor.
State	Select the status of the sensor.
Remove	To remove the condition, click "Remove".
Add combina- tion	To link the condition with sev- eral sensors, click the "Add combination" button.

Add time limit	You can define a time window in which the condition is to be performed or disabled.
Save and con- tinue	To save and store the condi- tion, click "Save and continue".
Navigation	
Alarms – Alarm	Condition – Alarm Notification
Parameter	Explanation
Alarm name	Assign the alarm condition a name (e.g. Shutdown).
Show in trap list	Activate the box when the alarm condition is to be shown in the trap list.
Trap severity	Select the priority of the trap (it will be marked with a coloured point in the trap list).
Insert to log file	Activate the box when the mes- sage is to appear in the logfile.
Send to trap receiver	Activate the box to indicate which trap receiver should re- ceive a message.
Send e-mail to receiver	Activate the box to indicate which receiver should receive an e-mail.
Send SMS to receiver	Activate the box to indicate which receiver should receive an SMS.
Send popup message to	Activate the box to indicate which receiver should receive popup message.
Save and con- tinue	To save and store the condi- tion, click "Save and continue".

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Navigation	
Alarms – Alarm o Alarm actions	condition – Alarm notification
Parameter	Explanation
No action se- lected	Select an alarm action from the pulldown menu.
Add another action	Select this button when an ad- ditional alarm action is to be performed.
Save settings	Click the "Save settings" button to save the setting.
Cancel	Click the "Cancel" button to clear the alarm action.

To change the conditions, proceed as follows:



Fig. 34 Overview of the new alarm condition

Key

1 Alarm condition overview

As Figure 35 shows, the new alarm condition is now shown in the overview. If you want to correct or delete this alarm condition, you see on the right-hand side of the alarm condition various links in the alarm conditions overview. Proceed as follows:

Navigation

Alarms	
Parameter	Explanation
Name: "delete" link	Click this link to delete the con- dition.
Condition: "change" link	Click this link to change the sensor or the sensors.
Notification: "change" link	Click this link to change the notifications.
Action: "chan- ge" link	Click this link to change the performed action.

7.7 Configuring the Webcam images

To display, download or delete recorded images, proceed as follows:

04042007 10.44 BO4042007 10.4
· Regularly saved · Alarm event images
C First C Second C Both

Fig. 35 Webcam images overview

Key

1 Configure the saved Webcam images

Navigation	
Images – Images Actions	
Parameter	Explanation
Time range	Specify in which time window you want to see, download or delete the images.
Images type	Specify whether you want to see the regularly saved or the images for alarms.
Webcam to use	Select whether you want to see only the images of Webcam 1 or 2 or the images of both Webcams at the same time.
Show images	View all images stored on the CMC-TC Master II hard disk.
Download images	Download the images not con- tained in an archive.
Delete images	Delete the images not con- tained in an archive.

7.8 Setup for logged in Processing Units



Fig. 36 Setup overview

Key

- 1 Logged in Processing Units
- 2 "Setup" tab
- 3 Configuration menu of the Processing Unit

Note!

The settings of the connected Processing Units are specified only once. If later, the configuration is changed via the Web interface of the Processing Unit, the changes are not automatically transmitted to the Master.

As a result, configuration changes must always be carried out via the Master II.

You can directly access and configure the logged in Processing Units. To do this, proceed as follows:

- Click in the left-hand frame of the browser window (Figure 37, item 1) on the link of the Processing Unit (this is then marked with an arrow).
- Then click the "Setup" tab and proceed as follows:

Navigation	
Setup	
Parameter	Explanation
Device name	Enter here the name of the Processing Unit.
Device location	Enter here the location.
Device contact	Enter here the contact address of the responsible person.
Device description	Device description (this infor- mation is important for support and complaints).
Change values	Click "Change values" to accept the settings.

The Processing Unit also has an integrated beeper and an alarm relay.

Navigation	
Setup	
Parameter	Explanation
Beeper	Select whether or not for an alarm the Processing Unit should issue an acoustic signal.
Quit alarm relay	Select whether or not the relay should be reset automatically after an alarm.
Alarm relay options	Specify whether the alarm relay contact in the initial state (no alarm) should be open or closed or switched off completely.
Change values	Click "Change values" to accept the settings.

Scroll further down. You now see the units and the sensors connected to the Processing Unit.



Fig. 37 Sensor units settings overview

Key

- 1 Name of the sensor unit
- 2 Sensor settings

> Note!

The settings of the connected Processing Units are specified only once. If later, the configuration is changed via the Web interface of the Processing Unit, the changes are not automatically transmitted to the Master.

As a result, configuration changes must always be carried out via the Master II.

- Configure the sensor units and sensors as required.
- After each setting change, click "Change values" or "Change name".

7.9 Displaying the status of the logged in CMC-TC Processing Units

You can view the status for each logged in Processing Unit.



Fig. 38 Sensor units status overview

Key

- 1 Logged in Processing Units
- 2 "Status" tab
- 3 Overview of the connected sensor units
- 4 Link to the Setup menu

You can directly access the logged in Processing Units and view the current status. To do this, proceed as follows:

- Click in the left-hand frame of the browser window (Figure 39, item 1) on the link of the Processing Unit (this is then marked with an arrow).
- Then click the "Setup" tab (2).

You now see the logged in Processing Unit with its sensor units and connected sensors.

• If you want to reconfigure the sensors, click the tool icon (4) to immediately display the Setup menu (see Section 7.8

Setup for logged in Processing Units).

7.10 Overview menu

EN

The overview menu displays all logged in Processing Units at once. If no alarm is present, the colour of the Processing Units is green. The Processing Unit colour changes depending on the alarm state (see following table).

Colour	Status
Green	ОК
Yellow flashing	Warning
Red flashing	Alarm
Red-yellow flashing	Sensor Unit can no longer be reached; the configuration has been changed.



Fig. 39 Logged in Processing Units overview window

Key

- 1 "Overview" tab
- 2 Logged in Processing Unit
- 3 Background image

To create this overview window, you must make the settings as described in Section 7.5.9 Configure overview window.

You can directly display the status of the associated Processing Unit with a mouse-click (see Section 7.9 Displaying the status of the logged in CMC-TC Processing Units).

7.11 Administering trap messages

The CMC-TC Master II can receive traps from all logged in Processing Units. This requires that the CMC-TC Master II has been entered as trap receiver with the Processing Unit. The individual sensors must be set so that a trap message can be issued when a status change occurs. To configure the traps for the sensors, consult the Processing Unit operating guide.

Once the CMC-TC Master II and the Processing Units have been set up, you will receive a trap message for each sensor status change.

To administer the trap messages on the CMC-TC Master II, proceed as follows:



Fig. 40 Trap messages overview

- Key
- 1 "Traps" tab
- 2 Acknowledge, delete and store the trap messages
- 3 Marking of the trap messages
- 4 Reset button for all trap messages
- 5 Priority of the trap message

Figure 41 shows the trap messages of the individual sensors and alarm actions. The trap list shows the following: the date and the time of the trap message; the name and the location of the Processing Unit that issued the alarm; the error message of the sensor that issued an error message; the action performed by this error message; the colour points show the priority of the error message.

Newly-entered trap messages are marked red. If the green tick on the trap message is clicked, the background becomes grey and the eraser icon appears. This means that this message can be deleted. As for an eraser, clicking the icon deletes the message.

You can also acknowledge and delete all messages at once. Click the green tick (2). All messages switch from red to grey. Click the eraser (2) icon to delete all messages.

You can store the trap list of your computer. Click the diskette icon (2). You will now be requested to select a store location and to store the trap list. The trap list is saved as text file.

All trap messages are counted from a specific time. You can reset this counter by clicking "Reset". This resets the counter to zero and updates the time. The counter restarts counting from this time. You have defined in Section 7.6, the priority of the individual messages. These messages will now be displayed in the trap list (see Figure 41, step 5).

EN

EN

7.12 Supported Rittal components

The CMC Master II supports the following components:

Components	Model No.
Active PSM	7856.200
	7856.201
	7856.203
	7856.204
Rittal PCU	7200.001
RTT I/O Unit	3124.200
LCP	3301.230
	3301.420
Access Unit	7320.220
Climate Unit	7320.230
Fan control system	7320.810
-	7858.488
Universal I/O Unit	7320.210

From software version 2.0, the CMC Master II also supports the following Rittal components:

Components	Model No.
CMC-TC acoustic sensor	7320.640
PSM busbar with measurement	7856.016 7856.019
Rack extinguisher system DET-AC Plus	7338.100 7338.110
Comfort handle TS8 CCP	7320.721
Active PSM module 2x C13, 4x C19	7856.204
Active PSM module 2x C13, 4x with earthing-pin plug	7856.203
Basic CMC	7320.111
CMC-TC Wireless I/O Unit	7320.240
Wireless digital input	7320.585
Wireless temperature sensor	7320.505
Wireless humidity sensor	7320.515
Wireless access sensor	7320.535
LCP Plus	3301.480
LCP Extend	3301.490
LCP Inline	3301.470 3301.475

Note!

Also observe the instructions of the respective components.

8 Access using Telnet

You can also configure the CMC-TC Master II using Telnet. This requires that you are permitted to have access with the terminal program using Telnet (see 7.3.9 Configuring Telnet access).

8.1.1 Login using Telnet

This section describes access using Telnet with Windows.

- a. Open the input prompt and enter the command: telnet <IP-address>.
- b. Press "Return" or "Enter" to confirm.
- c. Enter for "login" the Telnet login (factory setting: 'cmc'). Press "Return" or "Enter" to confirm.
- d. Enter for "Password" the Telnet password (factory setting: 'cmc'). Press "Return" or "Enter" to confirm.

8.1.2 Telnet main menu

After login using Telnet, the same main menu as for access using Hyperterminal appears. Because all procedures are similar, refer to Chapter 7 Operation.

9 Send SMS

From software version 2.20 and with an additional GSM unit, the Master II is able to send an SMS. If the Master uses a previous software version, you may download the current software version from the Rimatrix5 Homepage.

This section describes the installation and commissioning of the GSM unit.

9.1 Connect GSM unit

To connect the GSM unit to the Master II, proceed as follows.



Fig. 41 Connecting the GSM unit (master)

• Remove the connection cable for the GSM unit from the accessory pack supplied with the master. Insert the cable with the D-Sub9 socket at the COM2 interface of the master. If the connection cable is not part of your Master II supply scope, you can order the cable from our telephone hotline at +49 2772 505 9052.



Fig. 42 Connecting the GSM unit

- The other end of the connection cable has an RJ12 connector. Insert this connector in the socket labelled IOIOI on the GSM unit (1).
- The SIM card of the mobile telephone operating company can be inserted in the slot labelled GSM (2). Please configure beforehand the SIM card settings as described in Section 9.2 Setting up the GSM unit on the master. If this is not done, the SIM card, for example, could be blocked by an access with an incorrect PIN.
- Connect the power pack with the GSM unit (3). Now insert the mains connector of the power pack in the socket.

9 Send SMS

The GSM Unit will now be detected automatically by the Master II.

9.2 Setting up the GSM unit on the master

Login as administrator to the master as usual from the browser.





Click the "Admin" tab (1). Now click the "GSM unit setup" link (2).

	2	
PIN GSM card:		
Service center GSM:	+491710760000	
Phone number 1:	+491735314595	Enable: 🔽
Phone number 2:		Enable: 🔲
Phone number 3:	+4927725052557	Enable: 🔽
Phone number 4:	+4927725052702	Enable: 🔽
Send ALL events to:	1 2 3 4	
	GSM unit o.k. [Signal 41%]	
	Change configuration	
	Send test SMS	

Fig. 44 Configuring the GSM unit

Navigation		
GSM unit configuration		
Parameter	Explanation	
GSM card PIN	Enter here the PIN number of the SIM card provided the SIM card provided the SIM card requires a PIN.	
	Caution: The GSM unit at- tempts to login automatically with the PIN entered on the SIM card. The SIM card will be blocked after three login attempts with incorrect PIN. Once the card is blocked, a mobile radio device must be used with the PUK to unblock the card.	

GSM service centre	Enter here the service centre number of the provider.
Phone number 1-4	Enter here the telephone num- bers of the SMS recipients. For example: +49123412345678 Click in the selection box behind <i>Enable</i> to switch this active.
Send ALL events to	Activate the checkboxes of the recipients who should receive all alarm SMSes.
Change con- figuration	Click "Change configuration" to accept the settings.

Navigation	
Send test SMS	
Parameter	Explanation
Send test SMS to:	Select from the drop-down me- nu the recipient who should receive a test SMS.
Send test SMS	Click the button to send the test SMS. If the test SMS cannot be sent, an appropriate entry will be written to the event log. The test SMS will be sent once the sending of SMSes is possible again.

Now click the "Alarms" tab (1). It can be specified here individually for each alarm configuration whether an SMS should be sent. If you have already specified that an SMS should be sent for all events ("Send all events to"), nothing needs to be entered here.





Click on the "change" link in the "Notification" line (2).



Fig. 46 Setting the SMS recipient

Select using the selection boxes which SMS recipient should receive an SMS for an alarm (1). Then click the "Save changes" button to save the settings.

10 Error messages

Operating LED off

Cause	Rectification
Power pack not con- nected	Connect power pack.
Power pack defective	Replace the defective power pack with an operational one.
Missing power supply	Establish the power supply.

Link/Traffic LED off

Cause	Rectification
Network connection missing	Connect RJ-45 network cable.
Incorrect IP address	Check the IP address.
Incorrect subnet mask	Check the subnet mask.
Incorrect gateway address	Check the gateway ad- dress.

No access authorisation using Telnet

Cause	Rectification
Telnet access for the CMC-TC Master II disabled	Activate Telnet access using Hyperterminal.
Incorrect IP ad- dress entered	Check the IP address.
Incorrect user- name entered	Check the username.
Incorrect pass- word entered.	Check the password.

No access authorisation using the browser

Cause	Rectification
Incorrect user- name entered	Check the username.
Incorrect pass- word entered	Check the password.

11 Maintenance and cleaning

No access authorisation using Hyperterminal

Cause	Rectification
Incorrect user- name entered	Check the username.
Incorrect pass- word entered	Check the password.

No settings can be made from the browser.

Cause	Rectification
Web access set only to read au- thorisation	From the Web Access menu item use HyperTerminal or Telnet to set the access au- thorisation.

SNMP traps are not sent

Cause	Rectification
The read and write community entries are not set correctly	Use Hyperterminal or Telnet to compare the read and write authorisation with that of the management software.
Trap receivers have not been entered	Check the trap receivers.

Maintenance and cleaning 11

The Rittal CMC-TC Master II is a maintenance-free system. The housing does not need to be opened during the installation or during operation.



Note!

Opening the housing or the accessory components voids any warranty or liability claims.

11.1.1 Cleaning



Caution!

Danger of damage! Do not use any aggressive materials, such as white spirits, acid, etc., for cleaning because they can damage the device.

Use a lightly dampened cloth for cleaning the housing.

EN

12 Storage and disposal

12.1.1 Storage

If the device is not being used over a longer period, we recommend that it be removed from the power supply and protected from humidity and dust.

Further information concerning the operating conditions is contained in the technical specifications.

12.1.2 Disposal

Because the CMC-TC Master II consists primarily of the housing and PCB, the unit must be disposed of through the electronic waste recycling system when it is no longer required.

13 Customer service

Should you have any questions (either technical or general) concerning our product spectrum, please contact the following service address:

Tel.: +49 (0)2772/505-1855 http://www.rittal.com E-Mail: info@rittal.de



Note!

To allow us to process your request quickly and correctly, please always specify the article number in the subject line for e-mails.

Further information and the current operating guides and updates of the Rittal CMC-TC are available for download under Security on the Rimatrix5 homepage.

14 Technical specifications

14 reclinical specifications		
Description	CMC-TC	
Housing		
Housing type	Aluminium housing	
Height	65 mm	
Width	150 mm	
Depth	175 mm	
Weight without pack- ing	approx. 0.6 kg	
Potential equalisa- tion	_ 1)	
Earthing	- 1)	
Protection category	IP 20 to EN 60529	
Interfaces		
Serial interface	2 x RS232 interface (D-Sub9)	
Network interface	1 x RJ-45 socket (10/100 BaseT)	
LED display	1 x operating light (rear side)	
USB connection	2 x front side, 2 x rear side	
VGA connection	1 x VGA connection (front side)	
PS/2 connection	2 x PS/2 connection for key- board and mouse (rear side)	
Operating range		
Temperature	+5 to +35 °C +41 to +95 °F	
Humidity	5 – 95 %	
Storage temp.	-20 to +70 °C -4 to +158 °F	
Rated voltage	1 x 5 V DC 6 A SELV	
Fuses	Fine fuse T2A, 250 V, UL approval	
Network	1 x RJ-45 socket (Ethernet, 10/100 BaseT), shielded	
Protocols		
Available protocols	- TCP/IP - SNMP V1.0 (incl. MIB II) - TELNET - FTP - HTTP	

Technical specifications

¹⁾ Not required because safety extra-low voltage 5 V DC

15 Technical terms

СМС-ТС

CMC-TC (Computer Multi Control – Top Concept) is a Rittal product used to monitor network enclosure components.

GSM card

A GSM card is a telephone card of a mobile telephone.

Internet browser

An internet browser can be used to display html pages (and those that conform to a similar standard). In the case of CMC-TC PU, they can be configured using a user interface displayed with an Internet browser.

Link

A link is a branch to another internet page or establishes a connection between two internet pages.

Mac address

The MAC address is a unique combination of alphabetic characters and digits assigned to a network interface. This is used to identify a network interface in a network, etc.

MIB (Management Information Base)

The MIB was developed to fetch and change network elements. The MIB II has been defined in the RFC 1213. Some manufacturers define their own MIBs that reflect the special characteristics of their product. The MIBs are registered as OID with the IANA (Internet Assigned Numbers Authority). Once an object has been assigned to an OID, the meaning may no longer be changed. An overlapping with other OIDs is not permitted.

SMS service no.

This a telephone number that the telephone provider makes available for sending SMSes.

SNMP (Simple Network Management Protocol)

The SNMP is a simple network management protocol based on TCP/IP. It was developed to allow network components to be monitored at a central management station.

Telnet

Telnet is a protocol to allow guest access to a remote server. The Telnet program provides the required client functions of the protocol.

Trap

Trap is the sending of SNMP messages.

Trap Receiver

The trap receiver is the recipient of SNMP messages.

Web access

The web access specifies the access capability using the internet.

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Microsoft Windows is a registered trademark of Microsoft Corporation. Acrobat Reader is a registered trademark of Adobe Systems Incorporated.













Schaltschrank-Systeme Industrial Enclosures Coffrets et armoires électriques Kastsystemen Apparatskåpssystem Armadi per quadri di comando Sistemas de armarios インダストリアル エンクロージャー

Stromverteilung Power Distribution Distribution de courant Stroomverdeling Strömfördelning Distribuzione di corrente Distribución de corriente 分電・配電システム

Elektronik-Aufbau-Systeme Electronic Packaging Electronique Electronic Packaging Systems Electronic Packaging Contenitori per elettronica Sistemas para la electrónica エレクトロニクス パッケージシステム

System-Klimatisierung System Climate Control Climatisation Systeemklimatisering Systemklimatisering Soluzioni di climatizzazione Climatización de sistemas 温度管理システム

IT-Solutions IT Solutions Solutions IT IT-Solutions IT-lösningar Soluzioni per IT Soluciones TI ITソリューション

 $\frac{Communication Systems}{Communication Systems}$ $\frac{Armoires outdoor}{Outdoor-behuizingen}$ $\frac{Communication Systems}{Soluzioni outdoor}$ $\frac{Sistemas de comunicación}{Sistemas de comunicación}$

