-weishaupt-

manual

Installation and operating instruction

1 User guide

- This installation and operating manual forms part of the equipment and must be kept on site at all times.

1.1 User guidance

1.1.1 Symbols

⚠ **Danger**	Immediate danger with high risk Non observance can lead to serious injury or death
⚠ WARNING	Danger with medium risk Non observance can lead to environmental damage, serious injury or death
⚠ CAUTION	Danger with low risk Non observance can cause damage to the equipment and injury to personnel
ⓘ	Important information
▶	Requires direct action
✓	Result after an action
▪	Itemisation
…	Range

1.1.2 Target group

These installation and operating instructions are intended for the operator and qualified personnel. They should be observed by all personnel working on the unit.

Work on the unit must only be carried out by personnel who have the relevant training and instruction.

Persons with limited physical, sensory or mental capability may only work on the unit if they are supervised or have been trained by an authorised person.

Children must not play with the unit.

1.2 Guarantee and Liability

Guarantee and liability claims for personal and equipment damage are excluded, if they can be attributed to one or more of the following causes:
- Non approved application of the communication module
- Non-observance of the installation and operating instructions
- Continued use despite a fault
- Repairs, which have been carried out incorrectly
- The use of non original Weishaupt parts
- Force majeure

2 Safety

2.1 Permissible application

The WCM-COM communication module is used for monitoring, remote control, error signalling and consumption data collection from a heating system.

2.2 Safety measures

Safety relevant defects must be rectified immediately.

2.3 Electrical connection

For all work carried out on live parts:
▪ Observe the accident prevention instruction BGV A3 and adhere to local directives
▪ Use tool in accordance with EN 60900

2.4 Disposal

Dispose of all materials used in a safe and environmentally friendly way. Observe local regulations.

Installation and operating instructions
Communication module WCM-COM 1.0 home
3 Product description

3 Product description

3.1 Type key

WCM-COM 1.0 home

WCM-	Weishaupt Condens Manager
-COM	Communication module
1.0	Issue
home	Version with the following functionality: ▪ Network interface

3.2 Technical data

3.2.1 Approval data

Basic standards	EN 60730-1 EN 60730-2-9

3.2.2 Electrical data

Mains voltage / Tolerance	230 V / -15 % … +10 %
Mains frequency	50 / 60 Hz
Max. consumption	8W
Type of protection	IP 31
Protection class	I

3.2.3 Ambient conditions

Temperature during operation	0 °C … 50 °C
Temperature during transport/storage	-30 °C … 70 °C
Relative humidity	max 80 %, no dewpoint

3.2.4 Dimensions

Width x height x depth [in mm]	205 x 211 x 57

3.3 Specifications of data connections

3.3.1 eBUS

	Description
Terminal	2 pole, eBUS+ and eBUS-
Address	Automatic

3.3.2 Ethernet

	Description
Connection socket	RJ45, Auto- MDIX
Max. speed	100 Mbit / s

3 Product description

3.4 Applications

The WCM-COM is compatible with the following units of the WCM Series:
▪ WCM-CPU:
  - WTC-GW 15/25/32   WCM-CPU Step 3 from Version 3.1f
  - WTC-GW 45/60   WCM-CPU Step 4 from Version 4.2e
  - WTC-GB 90-300   WCM-CPU Step 5 from Version 2.2 with CUI 2.3
  - WTC-OW 15
  - WTC-OB 20-35
▪ WCM-FS 1.0 und 2.0
▪ WCM-EM from 2.0
▪ WCM-KA from 2.0
▪ WCM-SOL 1.0 home

3.5 Included in delivery

The following items are components parts of the delivery:
 ▪ Communication module WCM-COM 1.0 home
 ▪ SD card, plugged in and pre-configured
 ▪ Network cable RJ45
 ▪ Fixing material
 ▪ Installation and operating instructions

4 Installation

4.1 Wall mounting the WCM-COM

▸ Fit DIN rail (35 mm) to wall using fixing material.
▸ Leave right side of housing accessible for external connections (network cables).
▸ Insert locking contact ①.
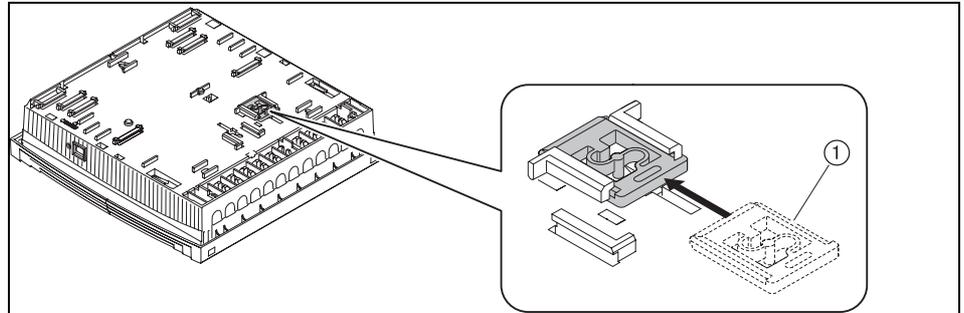
▸ Fit communication module to DIN rail.
▸ Connect cables (see CH. 5), close housing cover.
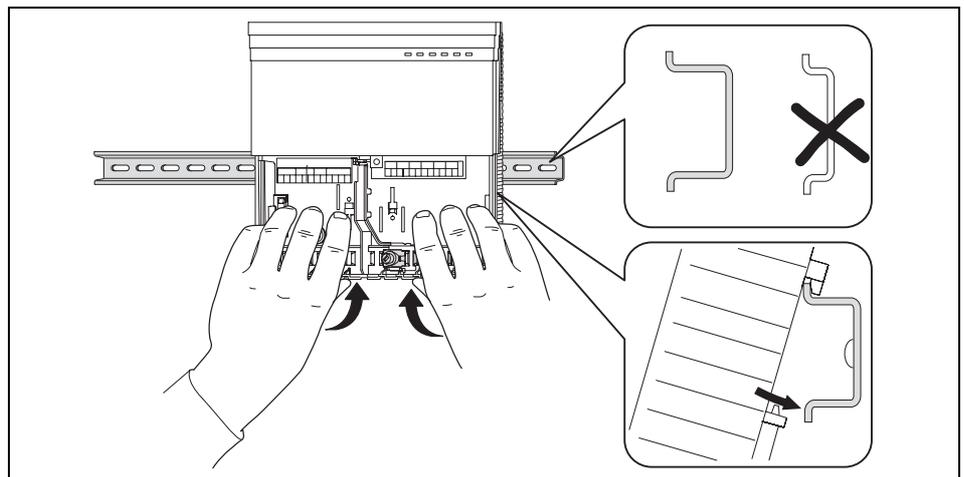
5 Electrical installation

5.1 Open housing cover

▸ Slightly depress tab and turn screwdriver clockwise.
▸ Remove housing cover.
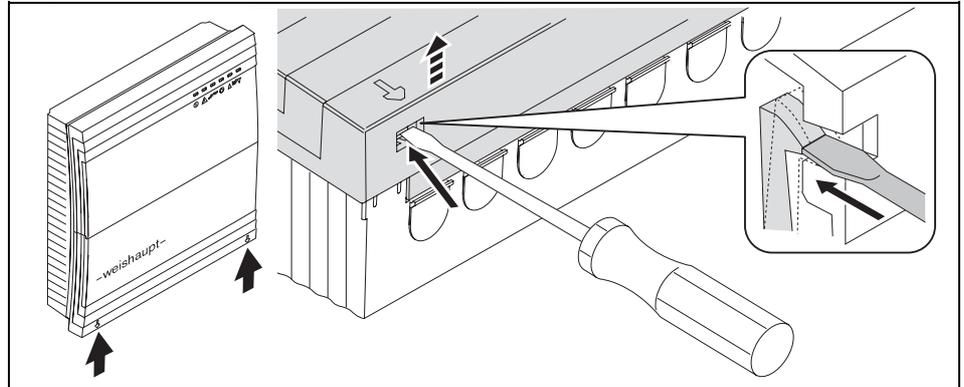
5.2 Connect WCM-COM
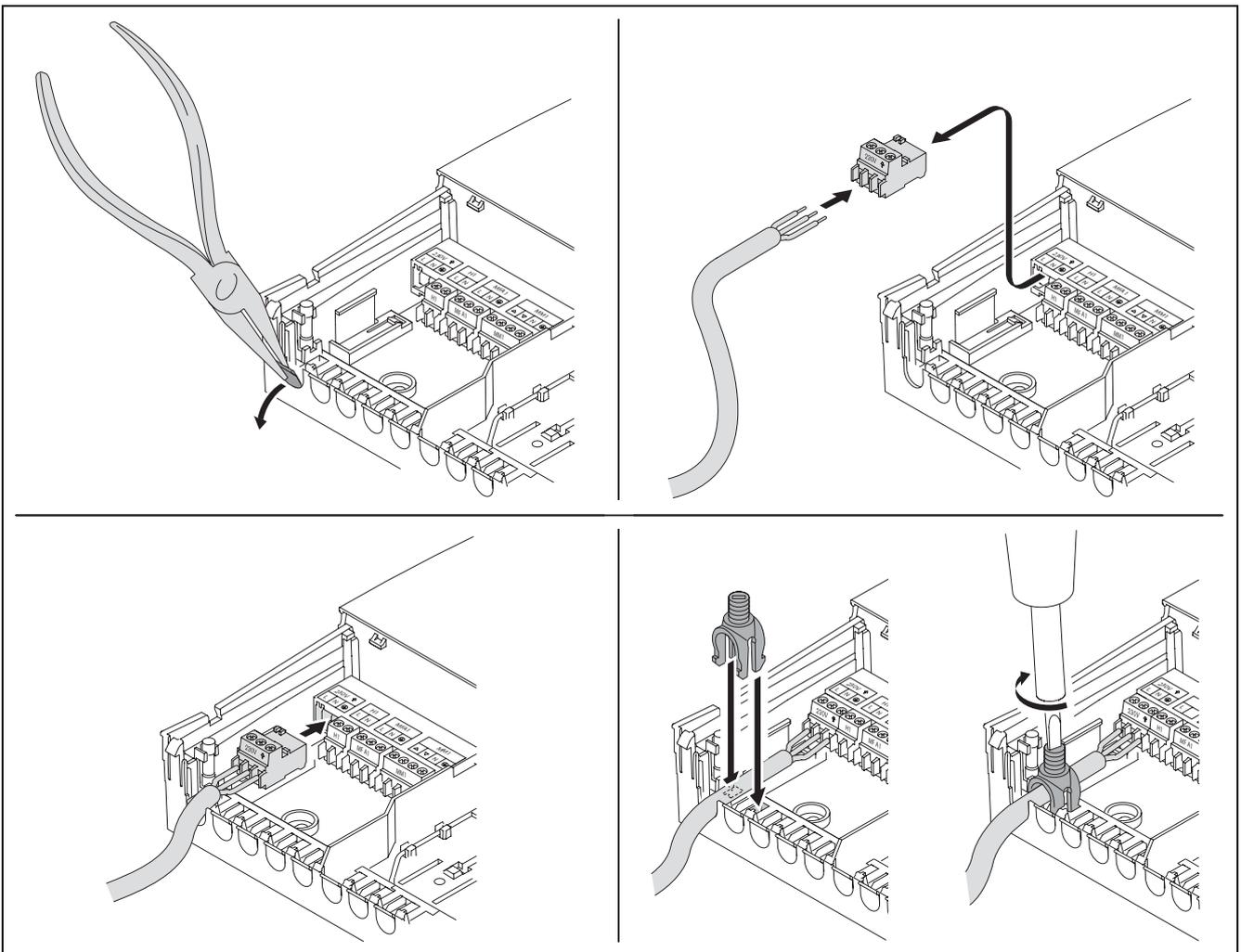
5 Electrical installation

Screened cables

The cables for eBUS and M-Bus should be connected to the screening shield.

Cable type: LIYCY 2 x 0.75
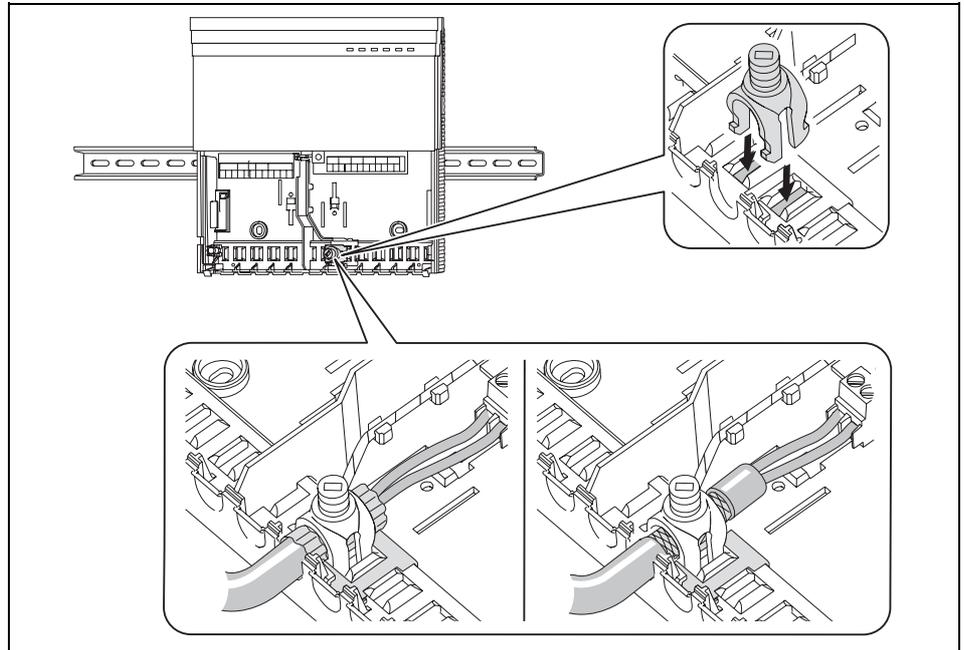
5 Electrical installation

5.3 Connect WCM-COM to condensing boiler

A maximum of 2 modules (WCM-EM or WCM-COM) may be connected to terminal 2 of the condensing boiler.
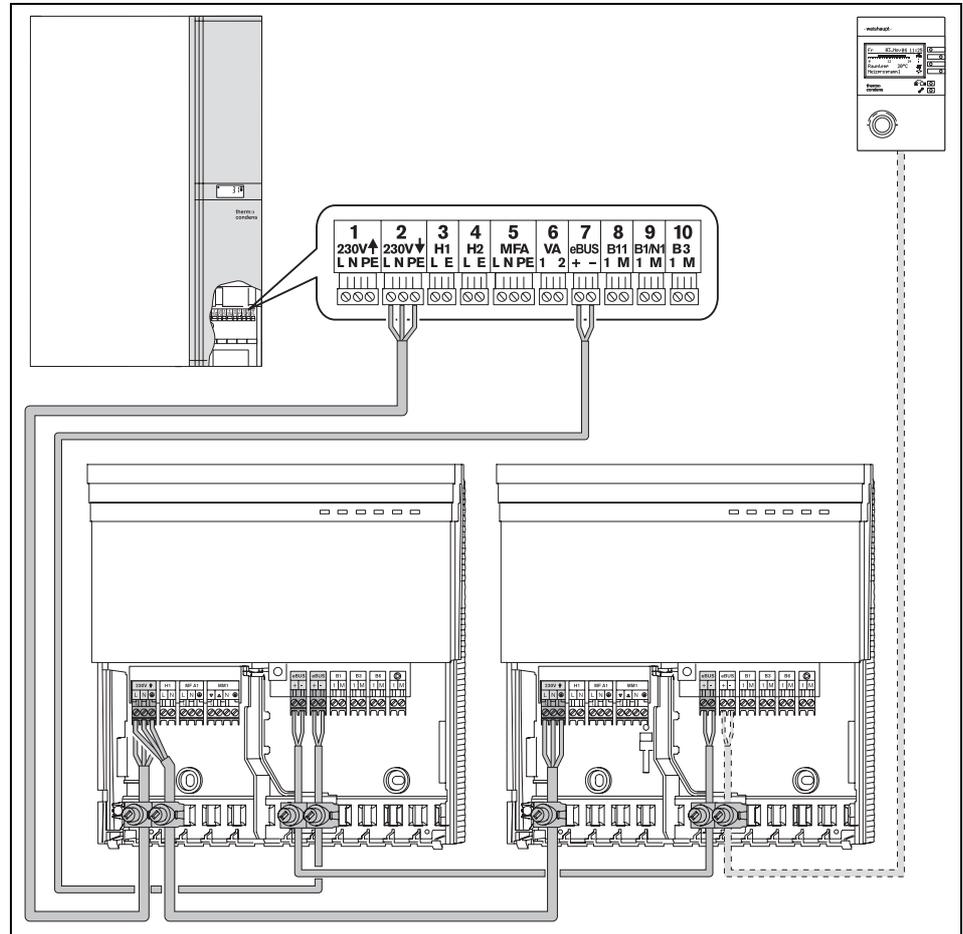
Several additional modules

If more than 2 modules are required:
▸ Connect condensing boiler and extension and/or communication modules via external isolating switch.

5.4 microSD card

The microSD card is included in delivery and already inserted and programmed with the data required.

The coded data stored can only be used with the WCM-COM. The WCM-COM has only limited functions without this microSD card.

5 Electrical installation

5.5 Network socket

The connection for the network cable is located on the right hand side of the housing and is accessible externally.
▸ Open the bottom of the three covers on the side.
▸ Plug in network cable.

5.6 WCM-COM connection diagram

5.6.1 Mains voltage section
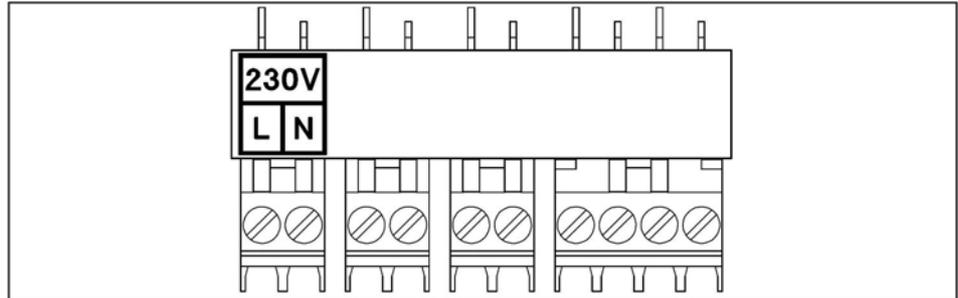
Terminal	Connection	Explanation
230 V	Supply voltage	230 V / 50 Hz
PE terminal	Protective conductor	-

5.6.2 Low voltage section
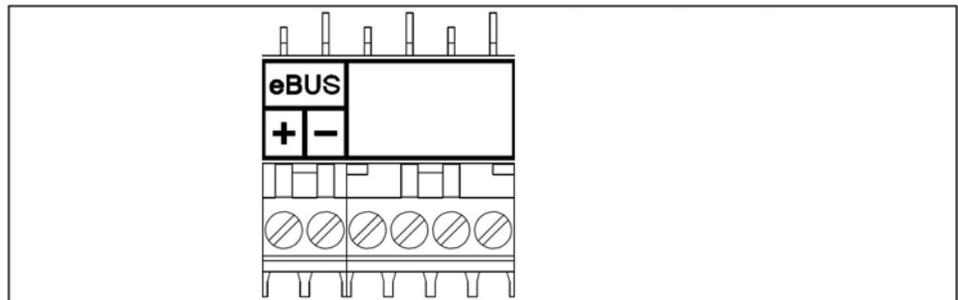
Terminal	Connection	Explanation
eBUS	Connect 2 pole eBUS cable, observe polarity	Non power supplying eBUS participant without Sync Generator

"CAN" connections are not taken into consideration with the WCM-COM.

5.6.3 Ports for cards (on the right of the connection area)
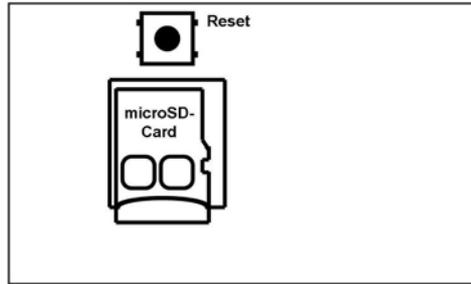
Terminal	Connection	Explanation
microSD	Card already inserted and preconfigured.	Only limited functionality without SD card.
Reset key	Press for approx. 10 seconds, until mains LED flashes.	Resets WCM-COM to factory settings.

5.6.4 Specific connection area (right side of housing)
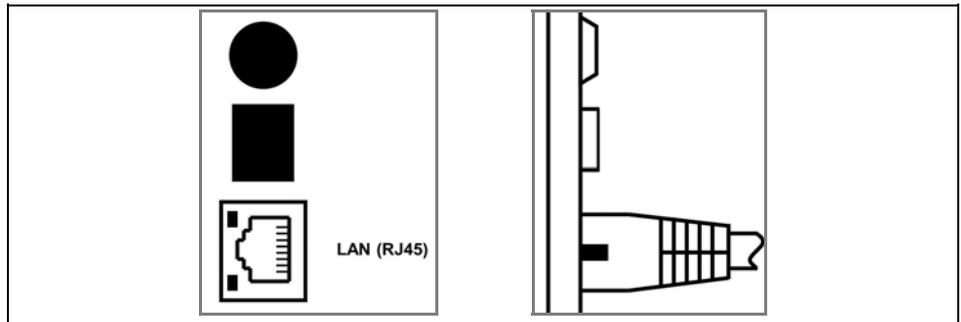
Terminal	Connection	Explanation
RJ45 Socket	Network cable RJ45	up to 100 Mbit / s

6 Connection possibilities

The WCM-COM 1.0 home can only be connected via network cable. This is described in detail below.

It may be advisable to consult a network administrator or IT expert to carry out this configuration. Incorrect configuration of the router could leave the complete (home) network being accessible by anyone on the Internet.

The WCM-COM communicates via http in the network, which runs unencrypted. Safety relevant transmissions, such as https, are not possible.

6.1 Network – Ethernet

The WCM-COM is equipped with a network socket. This is used for direct connection on site to access the local (home) network, and also for remote connection.

Direct connection
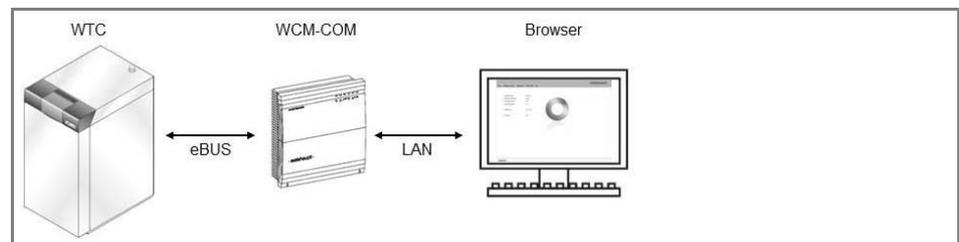
▸ Make a connection between Laptop and WCM-COM using the network cable provided.
✓ The PC recognises the new network connection. The network address is obtained within approx. 60 seconds and a connection is made.
✓ This is a connection with "limited or no connectivity" (possibly indicated by yellow warning sign at the connection icon in the taskbar), which is correct for operation with WCM-COM.

This connection serves as the communication basis for the WCM-COM.
▸ Websites are accessed via web browser.
▸ Target address: Enter "WCM-COM" into the address line of the browsers.
✓ Start page or password query (see Ch. 7.3) for the system connected is opened.

Direct connection by network cable offer a reliable way of testing the network connection and the network capability of the WCM-COM. If the interaction of these components which are included in delivery functions correctly when directly connected to a computer or laptop, the surrounding network (router, switch, network cable, etc.) should be examined if a connection is not made wirelessly.

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6 Connection possibilities

Measures if connection is not made

If an automatic network connection is not established when the WCM-COM is connected to the laptop, the following should be carried out:
▸ Check LEDs on the network sockets of the WCM-COM and PC.
✓ Green LED lights up permanently.
✓ Orange LED flashes at irregular intervals.

On the hardware side the connection is therefore made, and the settings for the network must be checked (in this case for Microsoft Windows):
▸ Start
▸ System control
▸ Network centre and release centre
▸ Manage network connections
▸ Select LAN connection, to which the WCM-COM is connected.
▸ Properties
▸ Properties of element "Internet protocol (TCP/IP)" – IPv4
✓ Generally: Enable "Obtain IP address automatically"
✓ Generally: Enable "DNS Server Address automatically"
✓ Alternative configuration: Enable " Automatically assigned, private IP address"

Measures if website is not displayed

If in spite of a network connection to the WCM-COM the start page of the browser (Internet Explorer 8) is not displayed, the connection settings in the browser must be checked:
▸ File
✓ Offline operation must not be enabled (not ticked).
▸ Extras
▸ Internet options
▸ Connections
✓ Enable "Never select connection"
▸ LAN settings
✓ Disable "Use Proxy Server for LAN"

Integration into a (home) network
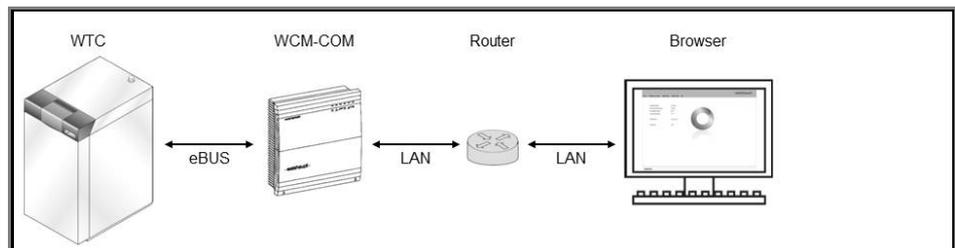
▸ Make connection between WCM-COM and Router (or Switch).
▸ Activation and administration of new participant in network may be necessary.
   See instructions of router.
✓ The WCM-COM is accessible by the participant in the (local) network.
▸ Access to websites via web browser.
▸ Target address: Enter "WCM-COM" into the address line of the browsers.
✓ Start page or password query (see Ch. 7.3) for the system connected is opened.

6 Connection possibilities

Remote access via the Internet

It may be advisable to consult a network administrator or IT expert to carry out this configuration. Incorrect configuration of the router could leave the complete (home) network being accessible by anyone on the Internet.
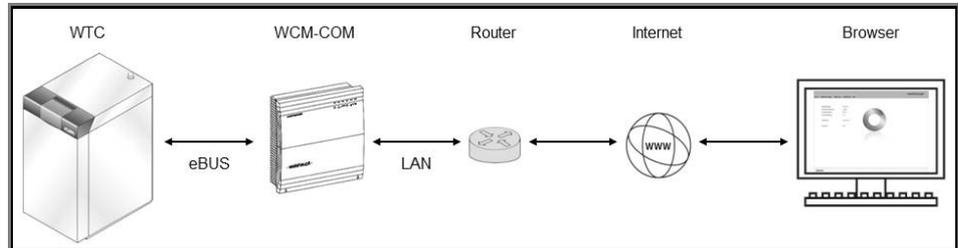

It is possible to access the WCM-COM from any PC or Laptop with Internet connection.
▶ Make a connection between the WCM-COM and the router.
▶ The router must maintain a permanent connection to the Internet.
▶ Router configuration to permit access to the WCM-COM.
✓ The system is accessible via the Internet by entering the public IP address into the address line of the browsers.

The IP addresses of (private) Internet connections are usually changed daily. A dynamic Domain Name System (DNS) is recommended to allow the WCM-COM to be addressed. On the one hand this provides an individual clear text address (for example: www.Example.DNS Provider.de), and on the other hand the new IP address is assigned to this URL (Internet address) after every IP change.

The router can automatically update the IP address of a dynamic Domain Name System. Please refer the operating instructions of the router for the configuration and setting required.

7 Operation

7.1 WCM-COM operating displays

WCM-COM display	Display status	Meaning
▪ □ □ □ □ □	Mains LED ON	Mains voltage applied
Ⓘ 𝑒BUS	Mains LED OFF	No mains voltage applied
	Mains LED flashes 8 times 50 % ON, 50 % OFF	Reset to factory settings
□ □ □ □ □ ▪	eBUS- LED continuously ON	eBUS connection made, at least one bus participant detected
Ⓘ 𝑒BUS	eBUS- LED flashes 50 % ON, 50 % OFF	Start phase of WCM-COM, the Bus scan takes approx. 3 minutes. If no eBUS participants are detected, the Bus scan continues permanently.

7.2 User interface

Each of the three possible ways of communication leads to a uniform and identical user interface. A current web browser (e.g.: Internet Explorer, Apple Safari, Mozilla Firefox,…) is required as software on the PC.

7.2.1 System prerequisites

The computer used must meet the following prerequisites to be able to operate the WCM-COM:

▪ Interface: USB or network connection

▪ Software: Internet Explorer 8 / 9
                 Mozilla Firefox 5 – 11
                 Google Chrome 17 / 18
                 A Flash Player (version 8 or higher) is required for data loggers (graphics) and solar outputs.

7.2.2 Division and mechanism of operation

Operation is exclusively via web browser and associated operating mechanism. The temperature, process values or adjustable parameters are generally divided as follows:

- Process value: non editable temperatures or conditions
- User: editable user defaults or setpoint values
- Expert: editable parameters, in-depth knowledge required

Alterations are entered on the user and expert pages.
- ▶ A premature page change discards any changes entered.
- ▶ Confirmation is only given by clicking the "Apply" button.
- ✓ The user entries are checked in the relevant control unit.
- ✓ Settings (poss. adapted to the value range) will be reloaded.

The following table shows the different components of the operation:

Display in browser (Microsoft Internet Explorer 8)	Explanation
☐ Flamme	Checkbox for status display cannot be edited
☐ Empfänger 1	Checkbox for selecting several options, can be edited
◎ Schließer	Checkbox to select one option can be edited
I11 Laststellung 90 %	Display of current process value cannot be edited
I11 Laststellung 90 %	Display of last process value. Failed to read, cannot be edited
P20 Korrektur Außenfühler 2 K	Display of parameter can be edited, decimal separator: Point
111 Betriebsart HK Programm 2 ▼	Display of default selection list can be edited
P52 Max. Ladezeit WW N/A min	Parameters or process values not available due to system configuration
Gerätename N/A	Failed to read, reselect page
Übernehmen	Button to apply settings made on the website
Info: Datenlogger 3 frei - Überwachung 7 frei	Display of remaining vacant positions in Data Logger and monitoring

Page call-up

When calling up the page in the browser, the default value or "N/A" is initially entered into the fields. One by one the parameters requested in blocks or individually are shown, which means a short delay until the page is completely loaded and operable.

7.3 Password query

Access to the WCM-COM is granted by entering a user ID and the relevant password. This protects against unauthorised access by third parties.

> In order to grant access to authorised personnel only, these factory settings must be individually customised.
> The prompt for you to change the password is superimposed. The password must be at least 8 characters, upper / lower case and a mixture of numbers and letters

Factory settings:
- User ID: admin
- Password: Admin123

If the password is entered incorrectly three times, log-in is only possible after 60 minutes

The complete deactivation of user rights or settings for different users and their relevant passwords are carried out in sub menu "User administration" (see Ch. 7.5.9).

If the message: "Sorry, the requested file does not exist on this Server" appears after login, this indicates a possible fault on microSD card. Check that the SD card has been inserted correctly, re-record it or replace it.

7.4 Components of the heating system

The WCM-COM is used to centrally monitor a number of different heat exchangers and controllers of the WCM system (see Ch. 3.4). Various temperatures, process values or error messages are monitored, checked and if necessary reported on.
▶ Detailed descriptions can be found in the relevant installation and operating manuals (WTC, WCM-FS WCM-EM, WCM-KA).

7.4.1 WTC heat exchanger

Current temperatures, status and process variables are shown in the sub-menu "Process values". With the appropriate checkbox in each row the process value is added to the Data Logger (DataLog) or for monitoring (Monit). This is only possible if the relevant function – Data Logger or Monitoring – is not activated (see Ch. 7.5.6 and 7.5.7).

For the engineer, selected parameters which can be edited are displayed on an additional page.

7.4.2 WCM-SOL solar controller

Current temperatures, status and process variables are shown in the sub-menu "Process values". With the appropriate checkbox in each row the process value is added to the Data Logger (DataLog) or for monitoring (Monit). This is only possible if the relevant function – Data Logger or Monitoring – is not activated (see Ch. 7.5.6 and 7.5.7).

For the engineer, selected parameters which can be edited are displayed on an additional page.

For the display the solar yields (sorts by days or months) the values are loaded from the WCM-SOL. This may take some time depending on the configuration.

7.4.3 WCM-KA cascade manager

Current temperatures, status and process variables are shown in the sub menu "Process values". With the appropriate checkbox in each row the process value is added to the Data Logger (DataLog) or for monitoring (Monit). This is only possible if the relevant function – Data Logger or Monitoring – is not activated (see Ch. 7.5.6 and 7.5.7).

For the engineer, selected parameters which can be edited are displayed on an additional page.

7.4.4 Heating circuits: WCM-FS and WCM-EM

Current temperatures, status and process variables are shown in the sub menu "Process values". With the appropriate checkbox in each row the process value is added to the Data Logger (DataLog) or for monitoring (Monit). This is only possible if the relevant function – Data Logger or Monitoring – is not activated (see Ch. 7.5.6 and 7.5.7).

The usual settings from the user area of the WCM-FS can be carried out in the user menu. Depending on system configuration, parameters from an associated WCM-EM are also displayed.
▸ Transmit settings carried out using button "Apply".
✓ If limit values are ignored an adjustment will be made in the controller, this correction will be displayed during the next automatic readout.

For the engineer, selected parameters which can be edited are displayed on an additional page.

It is possible to assign the heating circuit with an "additional name" for clear assignment in the engineer menu (example: FBH living area 1, radiator 2.OG, etc.). This is displayed on the left in the list of all heating circuits as additional information.

The configuration of the system connected is displayed under "Configuration". Various basic settings and version number can be found here for information.

A specific menu point is listed for adapting the timer programs. Heating programs 1 to 3 are available, as well as the DHW and circulation program, if available. The entry is made in two ways:
▸ Entry of the desired switch times by keyboard. These are available in 15 minute cycles, are interlocked, cannot overlap and must occur sequentially in time
▸ By clicking the Edit symbol next to the field to be altered
✓ A Popup window appears from which the required switch time can be selected

7.5 WCM-COM settings

Specific settings for communication and applications are configured and/or displayed in the main menu point "WCM-COM".

7.5.1 Network settings

Depending on the existing network or connection settings, various settings relative to the network must be made.
▸ The setting Automatic (Standard) or Manual should be selected as IP mode
✓ Automatic: The WCM-COM obtains a free IP address suitable for the network connected, which also supports this function (DHCP)
✓ Manual: For manually administered networks it may be necessary to assign a particular IP address, a subnet and a Gateway. These are entered into subjacent fields
▸ The Internet access currently selected is displayed for information. Standard access is via network (LAN).
▸ The entry for "Device Name" (Standard: WCM-COM) is equal to the name under which the WCM-COM is called up in the browser if connected directly or via local network (see Ch.6)
✓ The MAC address is the unique identification address of the WCM-COM in networks. For integration into existing (local) networks, the activation of the device using its MAC address may be required. This is factory assigned to the device and cannot be changed

The changed settings concerning the network will only take effect after a restart of the WCM-COM.

7.5.2 Addresses

System

The WCM-COM has specific, selectable system text (for example Owner, Address, System Number, Abbreviated Description, etc.) for each heating system.
This text is part of each message, for identification and easy assignment of the relevant message.

Recipient

An address book with five possible recipients is managed in the WCM-COM. The selection of the type of transmission with which a recipient is informed (email), is also made there.
▸ Prerequisite is the specification of a valid email address

A summary of the information sent to the relevant recipient can be found in the lower area.
▸ Selection is made on the relevant page for the messages or monitoring

Prerequisite for the relevant notification variation

Email
▪ Details for SMTP access in sub menu Email Server (see Ch. 7.5.3)
  - and -
▪ WCM-COM operation on network with Internet connection (DSL, UMTS, cable, etc.)

7.5.3 Email Server

In this section, the access data to the email post box is entered. This information is required by the WCM-COM to send emails.

The email provider (for example GMX, Freenet, …) provides information on its website via the SMTP (and POP3) server address.

▶ The WCM-COM is intended to be used to send emails only, therefore the entry for the SMTP Server is sufficient.
Login: completer email address
Password: Depending on the provider, special characters can cause errors

✓ Your login and password are transmitted to the email provider for authentication. This transfer takes place encrypted if the selected provider / email server supports "CRAM-MD5". If this is not the case, the data is transmitted in plain text.

7.5.4 Error history

The WCM-COM documents all errors of the heating system. The error history contains information about the unit which caused the error and the error code.

In addition events, which are captured by the WCM-COM, are listed.

The time is equal to the system time of the relevant time master (WCM-FS or WCM-KA). If the system does not have a master, the timer begins at start-up at:
01.01.2000, 00:00 hrs.

Message type:
▪ Error   Error in heating system (WTC or control device)
▪ L   Limit of monitoring exceeded

Error code:
▪ Error   Interpretation with the aid of the installation and operating manual
▪ L (Limit)   Ten: Number of monitoring (1 – 8)

                        One: 1: Lower limit violated
                                2: Upper limit violated
                                0: Value is within the limits

▶ This list can be rest using "Delete" button.

7.5.5 Messages

Any errors or warnings of the heating system are reported to up to five recipients (see Ch. 7.5.2).

Up to 10 errors can be blanked out – and one message deactivated. The entry is made using only the number (e.g. "15", if "Error 15" is not to be reported) without prefixed letter F or W for error or warning.

▶ Selection of recipient by setting the relevant fields
✓ Errors (with exception of those which have been blanked out) are reported
✓ The error, which has been rectified, will be confirmed with a zero error message

A fault in the heating system is transmitted with the message "WCM-FS 2 ERROR 0015" for "Error 15 of the remote control station with address 2". The appropriate   meaning can be looked up in the manual of the device concerned.
When the error is corrected it is confirmed with the message "ERROR 0000".

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7.5.6 Monitoring

Up to 8 heating system process values are monitored and if necessary reported to ensure limit values are not exceeded.

✓ The status (yellow = active/ grey = inactive) is shown
▸ Start / Stop of monitoring by pressing the button
▸ The selection is made on the relevant page of the process values by ticking the relevant checkboxes in column "Monitor"
✓ Only possible with operating mode "Stop" of monitoring function
✓ All parameters selected are listed together
▸ A generally valid sampling rate (in minutes) must be specified
▸ Limit values (min and max limit) are specified here
  It is only possible to monitor whole numbers without decimal place
▸ Up to 5 recipients can be selected from the addresses (see Ch. 7.5.2)
▸ An entry, which no longer needs monitoring, can be removed by ticking the checkbox "Delete" and then "Apply"
▸ Press the "Start" button
✓ The monitored values are interrogated in the given minute cycle and checked for their permitted limit
✓ The recipients are informed if the limits are exceeded

7.5.7 Data Logger

Up to 8 process values of the heating system are recorded in the data logger, can be represented graphically and therefore monitored in detail.

ⓘ	Only one log file will be saved in the WCM-COM at any time. Previously recorded data is therefore lost when restarting. The data can be backed up by downloading completed records.

✓ The status (yellow = active/ grey = inactive) is shown.
▸ Start / Stop of monitoring by pressing the button.
▸ The selection is made on the relevant page of the process values by ticking the relevant checkboxes in column "DataLog".
✓ Only possible with type of operation "Stop" of the Data Logger.
▸ A generally valid sampling rate (10 seconds to 60 minutes) must be specified.
▸ The recording colour for each graph is chosen here.
▸ An entry, which no longer needs monitoring, can be removed by ticking the checkbox "Delete" and then "Apply".
▸ Press the "Start" button.
✓ The data selected is read using the sample rate selected and saved in the WCM-COM.

When selecting the sample rates it should be noted what time periods are be considered and how many are to be displayed at once. The "Graphic" (see Ch.7.5.8) enables 300 records to be shown at any one time in one chart. An appropriate recording cycle should therefore be selected relative to the application.

The following table shows an overview of which cycle should be selected:

Recording cycle	Period (Example - Application)
10 seconds	approx. 50 minutes (individual heat up process)
1 minute	approx. 5 hours (individual heat / setback phase)
10 minutes	approx. 2 days (multiple heat / setback phases)
1 hour	approx. 2 weeks (long-term monitoring)

Each recorded point can be displayed by scrolling through, however, information may be missing, which will only become apparent from the context of a chart.

7.5.8 Graphic

In this section the recording of the data logger is displayed graphically. The last 300 recorded values appear which are also the maximum number of simultaneously displayable values. This should be observed when selecting the recording cycle (see table below).

A Java Plugin, version 8 or higher is required to display the graph in the browser.
A printout of the records is only possible as screenshot pasted into other programs.

✓ The status (yellow = active/ grey = inactive) is shown
▸ The data logged is exported by "Download" in *.csv format (table format, i.e. for Microsoft Excel)

It should be noted that a limit of approx. 65,000 measurement values exist when downloading the log and further processing it with Microsoft Excel. The following restriction result (the representation of the "Graphic" is not affected):

Recording cycle	Maximum duration
10 seconds	approx. 1 week
1 minute	approx. 6 weeks
10 minutes	approx. 1 year

▸ The "Controls" buttons allow skipping within the recording section. The increments from page forward or page back is equal to 250 recording points. It is also possible to skip to the start or the end.
▸ In the graphic chart, all process values are labelled with their relevant colours and can be displayed or hidden.
✓ If the colour field has been ticked it will be shown in the graphic.
✓ If the parameters are underlined, the present values (at the mouse position) are displayed in the graphic.
▸ For a more detailed view of the recording graphic zoom in by clicking the mouse (by moving it across the area to be viewed.).
✓ A scroll bar appears at the top of the graphic for a more refined navigation through the section previously displayed.
✓ "Show all" will show all values currently loaded.

7 Operation

7.5.9 User management

Users with 3 different authorisation levels are generated in the WCM-COM. A valid combination of user ID and password is required to login.

User groups

Up to 5 different users are managed in this menu. An overview of all websites with the relevant authorisation is depicted in chapter 8.
▸ To generate or edit a user the entry required has to be selected. Enter name and password and select the group from the fields below.
✓ The user is generated or edited by pressing "Add".
✓ The selected user is removed by pressing "Delete".

Please ensure the designation "admin" is not used when entering a name. "admin" is the default user name for full access to the WCM-COM (see below). If the name "admin" is given with authorisation level 'User' or 'Engineer', access as admin is no longer possible

Engineer

As engineer, the user has access to all adjustable parameters of the heating system connected. Adjustment and parameter settings can therefore be carried out in the authorisation level Engineer.

User

For the 'User', rights are limited to viewing process values or to carry out user relevant settings (room temperature settings, type of operation, time programs, etc.) for the heating circuits.

Admin

Only the specified user is authorised to administer the WCM-COM (settings, which relate to communication).
▪ User ID: admin
▪ Password: Admin123

Deactivation

When delivered, the user management is activated and only login as Admin
(see Ch. 7.3) is possible. This management can be switched off to simplify access.

This option should only be used if the WCM-COM is used solely with direct connection or with an otherwise secure network (e.g.: home network with activated Firewall and without remote access). If user management is de-activated, everyone in the network has full Admin access to the WCM-COM.

▸ Select "Authentication activated"
✓ Login occurs automatically as Admin each time the system is accessed

7 Operation

7.5.10 Reset

The following options are available in the sub-menu:

Backup of WCM-COM settings

When selected, the settings of the WCM-COM are saved to a target file.

Select location for this file (hard drive, removable disc drive, …).

Assign file name (specific ending: *.cfg).
✓ A backup copy with specific settings, or a standard version for other applications in the same scope, is generated.

Restart

The WCM-COM is restarted.

Reset

The WCM-COM is reset to factory settings.

ⓘ	If this is executed remotely via a manually configured network, the WCM-COM looses all settings and must be reconfigured via direct connection.

✓ If the configuration is incorrect, or if the system is changed, etc. all parameters are reset to a defined condition with basic settings
✓ User specific data (user ID, Logins, etc.) is deleted
▸ Re-enter user data, passwords, etc.

Start Scan

This starts a new Bus scan.
✓ When the configuration on the eBUS is changed, the new system scope is determined manually

7 Operation

7.5.11 Firmware Update

The current version of the firmware and the web pages can be found in section
Info – Version Overview.

If an update is required, this is carried out via this website. A special file type *.fwu is
available if required:
▸ Call up website Info – Version Overview
▸ Select "Search" and specify the path of the update file *.fwu
▸ "Start Update"
✓ The upload will last several minutes depending on connection speed
✓ The website will report the successful / failed upload
✓ WCM-COM restarts, with updated firmware

The firmware update may result in a reset to factory settings. If connection relevant
settings (manual network configuration or GPRS settings) are required, a remote update
may result in the WCM-COM no longer being available! When updating on site, save
settings made in advance (see Chapter 7.5.10)

Please do not close or navigate through the browser during the upload of the *.fwu file,
wait until the message "Firmware successfully uploaded => unit will restart!" (or one of
the status messages listed below) is displayed.

Firmware Update Status

The WCM-COM can display various messages to show the current status:

▪ "Firmware successfully uploaded => unit will restart!"
  The file has been successfully transferred; the new firmware is activated following the
  automatic restart

▪ "Firmware uploaded in progress!"
  The upload of the update file selected is in progress

▪ "Firmware uploaded cancelled by user"
  The upload page has been clicked away or closed by the browser

▪ "Firmware uploaded failed"
  Upload could not be completed, problems with the connection

▪ "Timed out during backup!"
  If no data is transferred for a prolonged period of time, the WCM-COM aborts the
  transfer

▪ "Firmware uploaded aborted - update package invalid"
  Selected update file incorrect

▪ "Firmware uploaded aborted - firmware not approved for unit"
  Selected update file does not match the unit

▪ "Firmware uploaded aborted – firmware not approved"
  Selected update file does not match the unit

Installation and operating instructions
Communication module WCM-COM 1.0 home
8 Authorisation levels of websites

8 Authorisation levels of websites

Main menu	Website	Authorisation
Home		User
Heat exchanger	WTC process values	User
	WTC Engineer	Engineer
	WCM-KA process values	User
	WCM-KA Engineer	Engineer
Heating circuits	Process values	User
	User	User
	Date – Time	User
	Engineer	Engineer
	Configuration	User
	Time programs	User
WCM-COM	Network settings	Admin
	Addresses	Admin
	Email Server	Admin
	Error history	Engineer
	Messages	Engineer
	Monitoring	Engineer
	Data Logger	Engineer
	Graphic	Engineer
	User management	Admin
	Reset	Admin
Info	Contact	User
	Version overview	User

Key word index

–weishaupt–

Product		Description	Performance
	W-Burners	The compact series, proven millions of times over: Economical, reliable, fully automatic. Gas, oil and dual fuel burners for domestic and commercial applications. The purflam burner gives almost soot-free combustion of oil with greatly reduced NO_x emissions.	Up to 570 kW
	Monarch and industrial burners	The legendary industrial burner: Tried and tested, long lived, clear construction. Gas, oil and dual fuel burners for district heat provision.	Up to 11,700 kW
	multiflam® burners	Innovative Weishaupt technology for large burners: Minimal emission values particularly at ratings over one megawatt. Oil, gas and dual fuel burners with patented fuel distribution system.	Up to 17,000 kW
	WK industrial burners	Modular powerhouses: Adaptable, robust, powerful. Oil, gas and dual fuel burners for industrial plant.	Up to 22,000 kW
	Thermo Unit	The Thermo Unit heating systems from cast iron or steel: Modern, economic, reliable. For environmentally friendly heating. Fuel: Gas or oil as desired.	Up to 55 kW
	Thermo Condens	The innovative condensing boilers with the SCOT system: Efficient, low in emissions, versatile. Ideal for domestic heating. Floor standing gas condensing boiler with ratings of up to 1200 kW (cascade), for higher heat demands.	Up to 1,200 kW
	Heat pumps	The heat pump programme offers solutions for utilisation of heat from air, soil and ground water. The systems are suitable for refurbishment or new builds. It is possible to use several heat pumps in cascade operation.	Up to 130 kW
	Solar systems	Free energy from the sun: Perfectly coordinated components, innovative, proven. Pleasantly shaped flat roof collectors to support heating and of domestic water	
	Water heater / energy reservoir	The attractive domestic water heating range includes classic water heaters which are supplied through a heating system and energy reservoirs which can be fed through solar systems.	
	Control technology / building management	From control panels to complete building management systems – at Weishaupt you can find the entire spectrum of modern control technology. Future oriented, economical and flexible.	