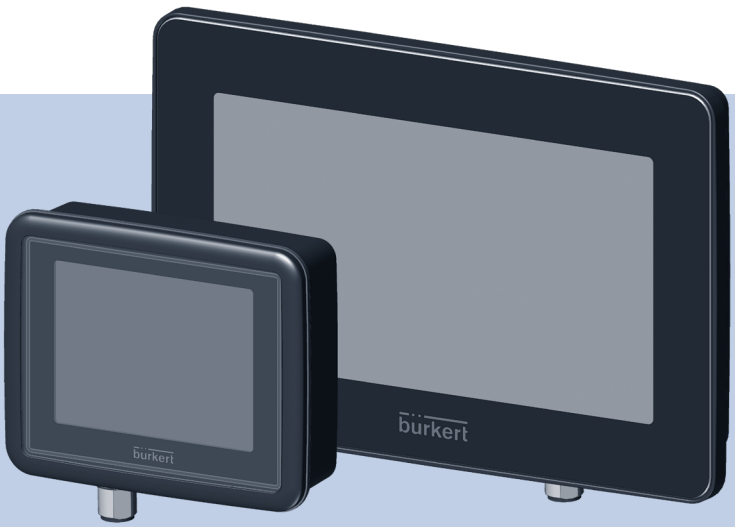
bürkert
FLUID CONTROL SYSTEMS

Type ME61

ProcessViewDisplay
ProcessControlDisplay



Operating instructions

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MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

Operating Instructions 2207/03_EN-en_00815341 / Original DE

Type ME61

CONTENT

1 OPERATING INSTRUCTIONS 5

1.1 Symbols 5

1.2 Definition of terms 6

2 INTENDED USE 6

3 BASIC SAFETY INSTRUCTIONS 7

4 GENERAL NOTES 8

4.1 Contact address 8

4.2 Warranty 8

4.3 Information on the Internet 8

5 PRODUCT DESCRIPTION 8

6 TECHNICAL DATA 9

6.1 Conformity 9

6.2 Standards 9

6.3 Operating conditions 9

6.4 Mechanical data 9

6.5 Electrical data 9

6.6 Type label, device labelling 10

6.7 Pin assignment 10

6.7.1 M12 plug 10

6.7.2 Terminal strip ProcessViewDisplay 11

6.7.3 Terminal strip ProcessControlDisplay 11

7 INSTALLATION 12

7.1 Safety instructions 12

7.2 Mounting on standard rails 12

7.3 Mounting with magnets 13

7.4 Mount with a pipe clamp (ProcessViewDisplay only) 13

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

7.5 Mounting in the control cabinet 14
7.5.1 ProcessViewDisplay 14
7.5.2 ProcessControlDisplay 15
7.6 Connecting to the fieldbus gateway 15
8 REPRESENTATION ON THE DISPLAY 16
8.1 Possible representations of the ProcessControlDisplay 16
9 START-UP WITH BÜRKERT COMMUNICATOR 19
9.1 User interface 19
9.1.1 Connecting the device to the Bürkert Communicator 20
9.2 Configuration of the views via Bürkert Communicator 20
9.3 Configuration of the automations via Bürkert Communicator (ProcessControlDisplay only) 23
9.4 Settings with Bürkert Communicator 25
9.4.1 Overview of the unit-specific setting options ProcessViewDisplay 26
9.4.2 Overview of the device-specific setting options ProcessControlDisplay 29
10 MAINTENANCE 31
11 TROUBLESHOOTING 32
11.1 Status indicators and measures 32
12 ACCESSORIES 33
13 DISASSEMBLY 34
14 PACKAGING, TRANSPORT 34
15 STORAGE 34
16 DISPOSAL 34

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

1 OPERATING INSTRUCTIONS

The operating instructions describe the entire life cycle of the device. Keep these instructions ready to hand at the operation site.

Important safety information!

- Carefully read these instructions.
- Above all, observe the safety instructions, intended use and operating conditions.
- Persons who work on the device must read and understand these instructions.

1.1 Symbols

DANGER!

Warns of an immediate danger!

- Failure to observe these instructions will result in death or serious injuries.

WARNING!

Warns of a potentially hazardous situation!

- Failure to observe these instructions may result in serious injuries or death.

CAUTION!

Warns of a potential danger!

- Failure to observe may result in moderate or minor injuries.

NOTE!

Warns of damage!

- Failure to observe the warning may result in damage to the device or the equipment.

Indicates important additional information, tips and recommendations.

Refers to information in these operating instructions or in other documentation.

▶	Highlights instructions to avoid a danger.
→	Designates a procedure which you must carry out.
✓	Designates a result.
MENU	Symbol for software interface texts.

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

1.2 Definition of terms

Definition of the terms used in these instructions.

- Device: the term “Device” stands for the following device types: ME61
- büS (Bürkert system bus): the term “büS” stands for the communication bus developed by Bürkert, based on the CANopen protocol.

2 INTENDED USE

Non-intended use of the device may be dangerous to people, nearby equipment and the environment.

The type ME61 is used to visualise and control data on a screen.

- To use the device, observe the permissible data, operating conditions and conditions of use. These specifications can be found in the contract documents, the operating instructions and on the type label.
- In the potentially explosive atmosphere, only use devices that are approved for this purpose. These devices are identified by a separate Ex type label. Before use, note the information on the separate Ex type label and the Ex additional information or the separate Ex operating Instructions.

The device

- must not be used outdoors.
- must not be opened.
- must only be used in conjunction with third-party devices and components recommended and authorized by Bürkert.
- must only be used when in a perfect state; always ensure proper storage, transportation, installation and operation.
- only as intended.

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

3 BASIC SAFETY INSTRUCTIONS

These safety instructions do not take into account any unforeseen circumstances and events which occur during installation, operation and maintenance. The operator is responsible for observing the location-specific safety regulations, also with reference to personnel.

General hazardous situations.

To prevent injuries, observe the following:

- Use the device only when it is in a perfect state and in accordance with the operating instructions.
- Do not make any changes to the device and do not subject it to mechanical stress.
- Secure device or system to prevent unintentional activation.
- Only trained technicians may perform installation and maintenance work.
- Install the device according to the regulations applicable in the respective country.
- After an interruption in the power supply, ensure that the process is restarted in a controlled manner.
- Observe the general rules of technology.

NOTE!

Electrostatically sensitive components and assemblies.

The device contains electronic components that are susceptible to the effects of electrostatic discharging (ESD). Components that come into contact with electrostatically charged persons or objects are at risk. In the worst case scenario, these components will be destroyed immediately or fail after start-up.

- Meet the requirements specified by EN 61340-5-1 to minimise or avoid the possibility of damage caused by a sudden electrostatic discharge.
- Do not touch electronic components when the supply voltage is connected.

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

4 GENERAL NOTES

4.1 Contact address

Germany

Bürkert Fluid Control Systems
Sales Center
Christian-Bürkert-Str. 13-17
D-74653 Ingelfingen
Tel. + 49 (0) 7940 - 10-91 111
Fax + 49 (0) 7940 - 10-91 448
E-mail: info@burkert.com

International

The contact addresses can be found online at:

country.burkert.com

4.2 Warranty

A precondition for the warranty is that the device is used as intended in consideration of the specified operating conditions.

4.3 Information on the Internet

Operating instructions and data sheets for the Bürkert products can be found on the Internet at:

country.burkert.com

5 PRODUCT DESCRIPTION

The display type ME61 is used for visualisation and control of process data.

Function	ProcessViewDisplay	ProcessControlDisplay
Maximum number of values per layout	4	4
Maximum layouts	1	16
Display size (inch)	3.5	7

Table 1: Product description

The Bürkert Communicator software is required to configure the display.

The Bürkert Communicator type 8920 can be downloaded free of charge from the Bürkert homepage. In addition to the software, the USB-büS interface set 1 type 8923, available as an accessory, is required. See chapter "12 Accessories".

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

6 TECHNICAL DATA

6.1 Conformity

The device conforms to the EU directives as per the EU Declaration of Conformity (if applicable).

6.2 Standards

The applied standards, which are used to demonstrate conformity with the directives, are listed in the EU type examination certificate and/or the EU Declaration of Conformity (if applicable).

6.3 Operating conditions

WARNING!

Risk of injury due to malfunction if used outdoors.

- Do not use the device outdoors and keep it away from heat sources that could cause the permissible temperature range to be exceeded.

Permitted ambient temperature range:	+10 °C...+60 °C
Altitude:	Up to 2000 m above sea level

6.4 Mechanical data

Dimensions:	See data sheet for Type ME61
Housing material:	Polycarbonate

6.5 Electrical data

Supply voltage:	24 V DC ±10%
Degree of protection:	IP 65 (ProcessControlDisplay) / IP67 (ProcessViewDisplay) according to EN 60529 / IEC 60529 (only with correctly connected cable)
Connection:	M12 plug A-coded

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

6.6 Type label, device labelling

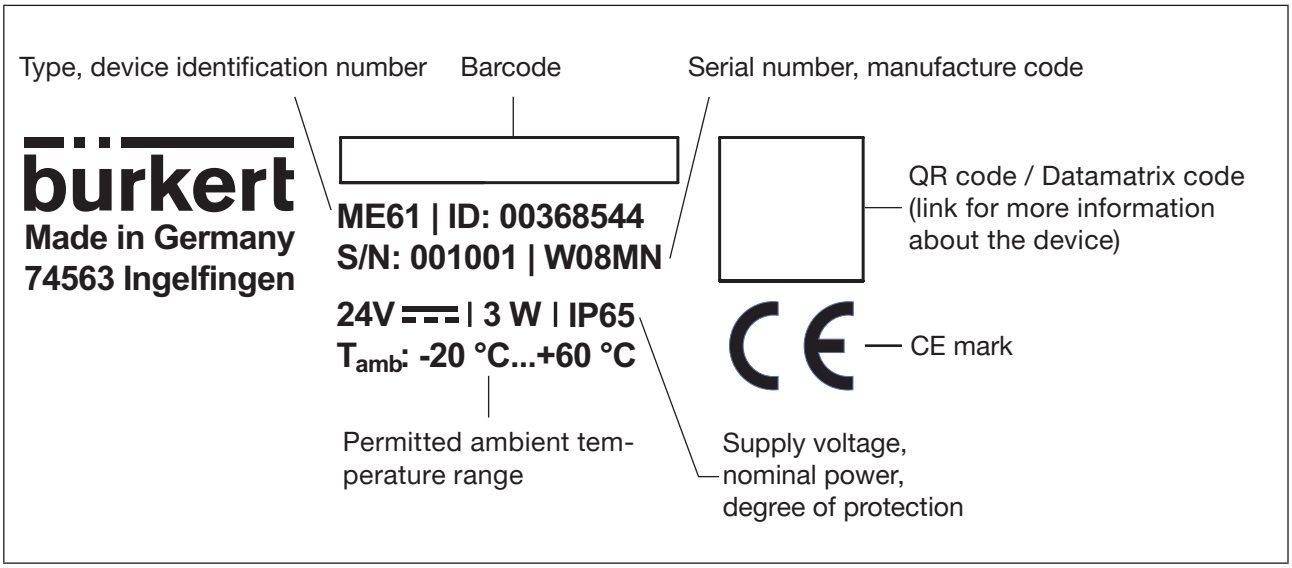


Image 1: Description of type label and device labelling

6.7 Pin assignment

6.7.1 M12 plug

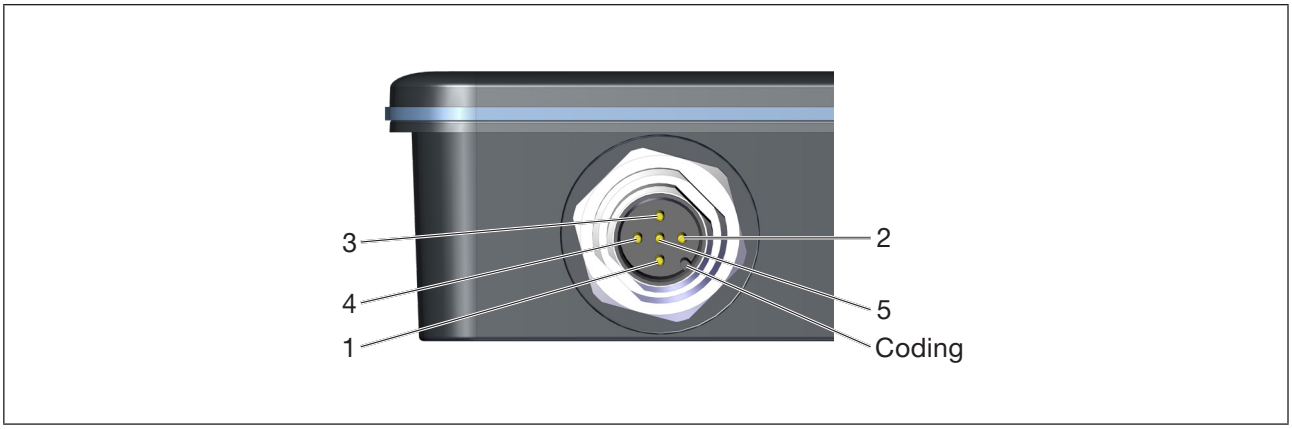


Image 2: M12 plug pin assignment

Item	Assignment	Function	Colour
1	FE/CAN GND	Shielding	brown
2	24 V DC	Supply	white
3	GND	Supply	blue
4	CAN_H	büS communication	black
5	CAN L	büS communication	grey

Table 2: M12 plug pin assignment

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

6.7.2 Terminal strip ProcessViewDisplay

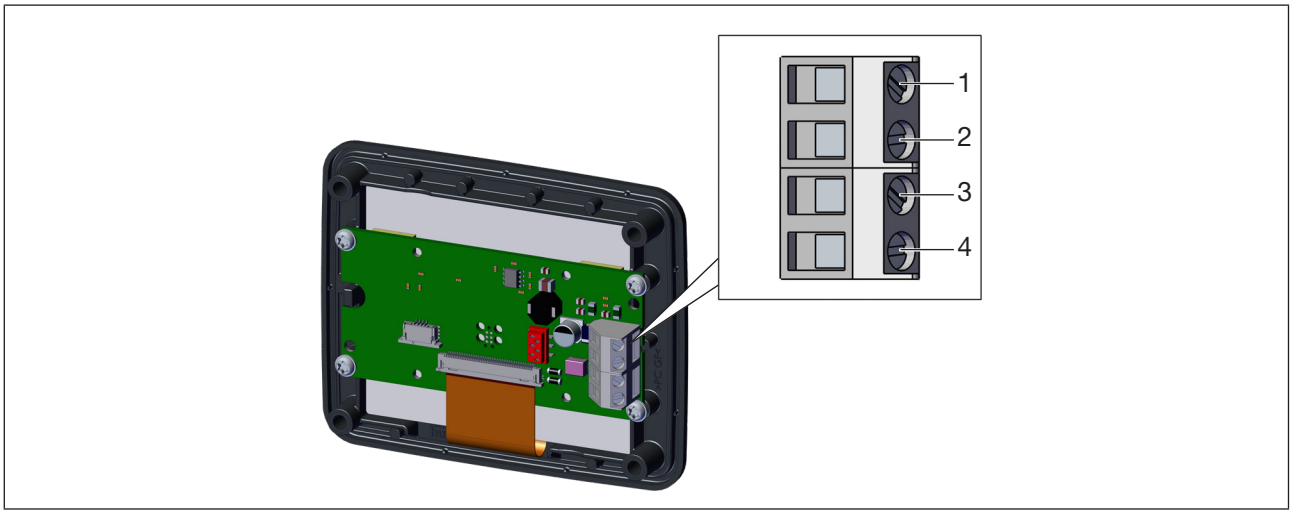


Image 3: Terminal strip pin assignment ProcessViewDisplay

Item	Assignment	Function
1	GND	Supply
2	CAN_L	büS communication
3	CAN_H	büS communication
4	24 V	Supply

Table 3: Terminal strip pin assignment ProcessViewDisplay

6.7.3 Terminal strip ProcessControlDisplay

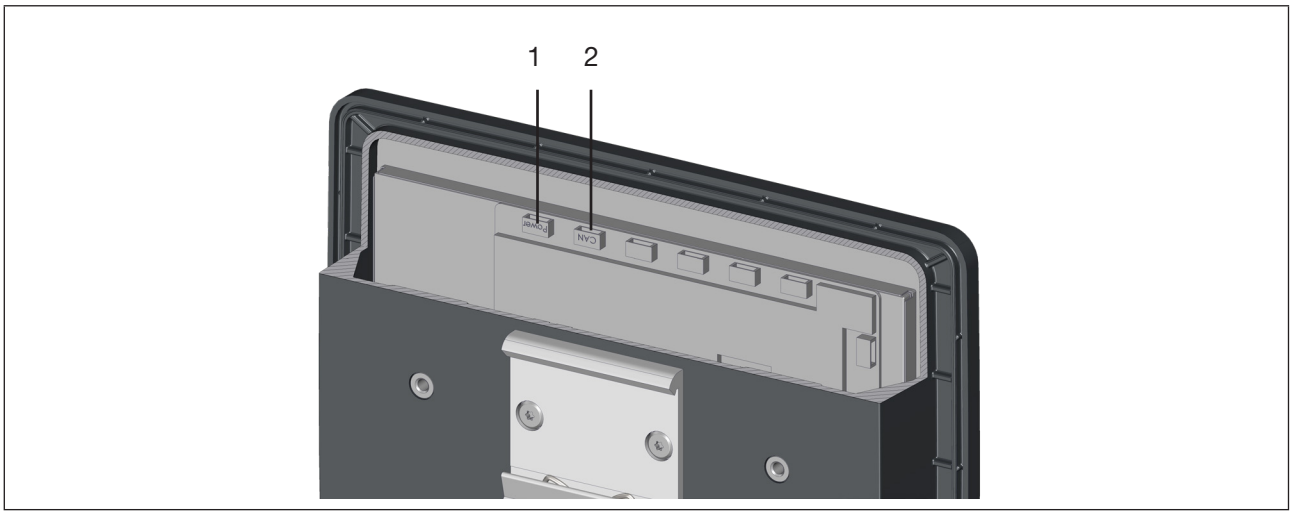


Image 4: Terminal strip pin assignment ProcessControlDisplay

Item	Assignment	Function
1	Power	Supply
2	CAN	büS communication

Table 4: Terminal strip pin assignment ProcessControlDisplay

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

7 INSTALLATION

7.1 Safety instructions

WARNING!

Risk of injury due to improper installation.

- Installation may be carried out by authorised technicians only and with the appropriate tools.
- Secure the system against unintentional activation.
- Following installation, ensure a controlled restart.

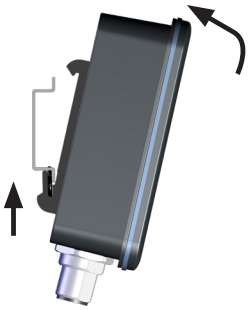
Fastening sets are listed in chapter “12 Accessories” on page 33.

7.2 Mounting on standard rails

1.

→ Tilt the device to the right and align it with the standard rail.

2.



→ Hook the device into the lower guide of the standard rail.

→ Push the device upward while tilting it to the left and lock it into the upper guide of the standard rail.

3.

Image 5: Mounting the device onto the standard rail

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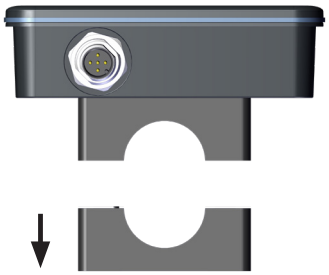
7.3 Mounting with magnets

→ Fasten the device, with 2 magnets on the back, to a metallic surface.

Image 6: Mounting the device with magnets

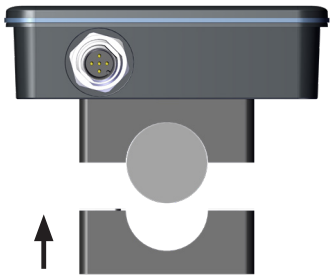
7.4 Mount with a pipe clamp (ProcessViewDisplay only)

1.



→ Loosen the screws on the pipe clamp and open it.

2.



→ Fasten the pipe clamp to the pipe.

ø23 mm without elastomer compartment

ø6 to ø19 mm with elastomer compartment

→ Fasten the screws (max. 0.7 Nm).

3.

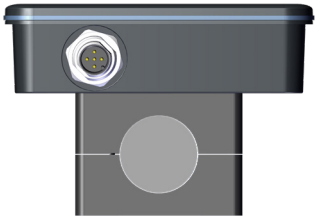


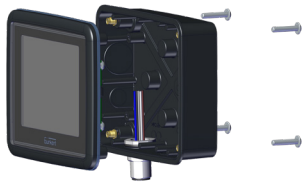
Image 7: Mounting the device with the pipe clamp

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

7.5 Mounting in the control cabinet

7.5.1 ProcessViewDisplay

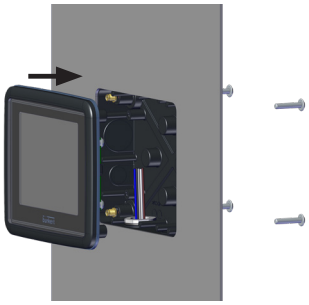
1.



→ Loosen the M12 screw of the connection cable.

→ Loosen the screws on the back of the housing bottom and remove the housing top with the seal, display, connection cable and printed circuit board from the housing bottom.

2.



→ Insert the housing bottom into the recess of the control cabinet from behind. Recess dimensions 96 mm x 76 mm (width x height).

→ Guide the connection cable through the opening and tighten the M12 screw.

→ Place the housing top with seal, display and printed circuit board onto the housing bottom from the front.

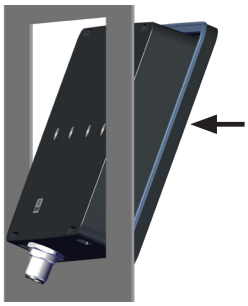
→ Fasten the screws (max. 0.7 Nm).

Image 8: Mounting the unit in control cabinet (ProcessViewDisplay)

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

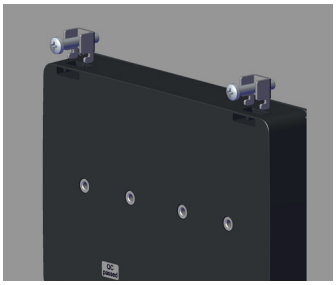
7.5.2 ProcessControlDisplay

1.



→ Insert the housing from the front into the recess of the control cabinet. Recess dimensions 178 mm x 123 mm (width x height).

2.



→ Insert fastening clips with screws.

→ Tighten screws to 0,7 Nm

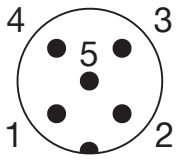
Image 9: Mounting the unit in the control cabinet (ProcessControlDisplay)

7.6 Connecting to the fieldbus gateway

→ Connect the 5-pin plug of the ME61 to the socket of the fieldbus gateway ME63 in accordance with the pin assignment.

→ Connect the 5-pin socket of the USB-büS interface set to the ME63 fieldbus gateway.

Pin assignment



Pin	Assignment	Function
1	FE/CAN_GND	Shielding
2	24 V	Supply
3	GND	Supply
4	CAN_H	büS communication
5	CAN_L	büS communication

Table 5: Pin assignment M12, A-coded

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

8 REPRESENTATION ON THE DISPLAY

8.1 Possible representations of the ProcessControlDisplay

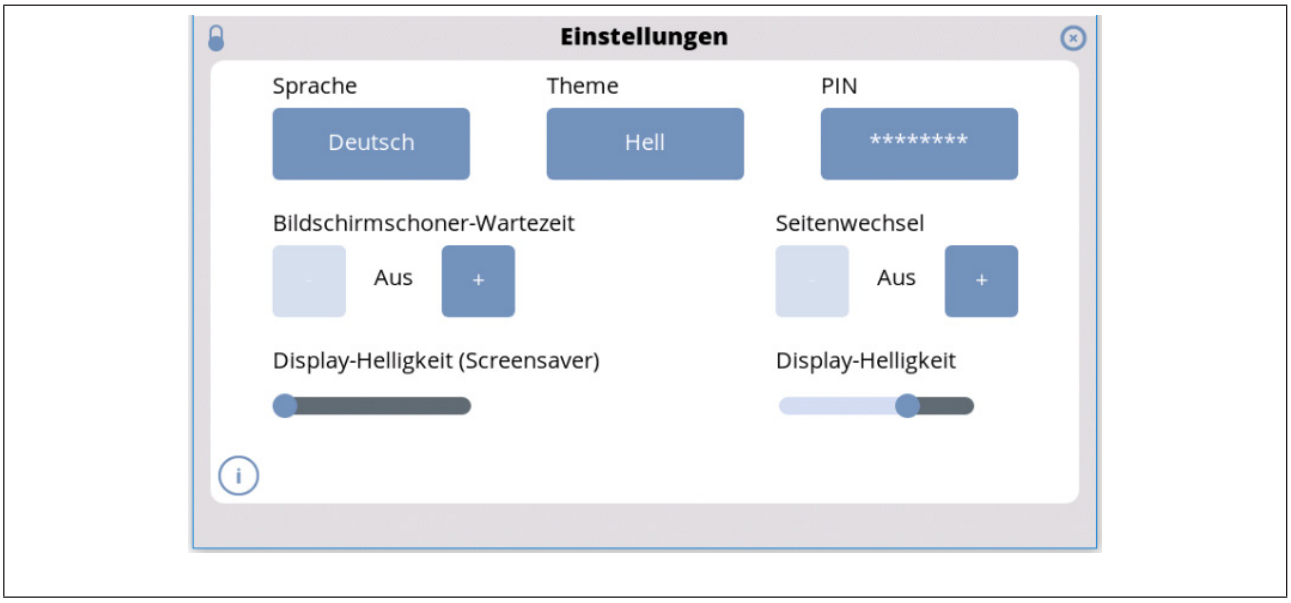


Image 10: Settings

Name	Function
Language	Setting the displayed language.
Theme	Setting of the displayed theme (light/dark).
PIN	Set PIN for system-relevant functions.
Screen saver waiting time	Time until the screen saver is displayed. On the Off setting, the screen saver is switched off.
Change pages	Automatic change between the set layouts.
Display brightness (screen saver)	Setting the brightness of the screen while displaying the screen saver
Display brightness	Setting the brightness of the screen in normal mode

Table 6: Settings

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

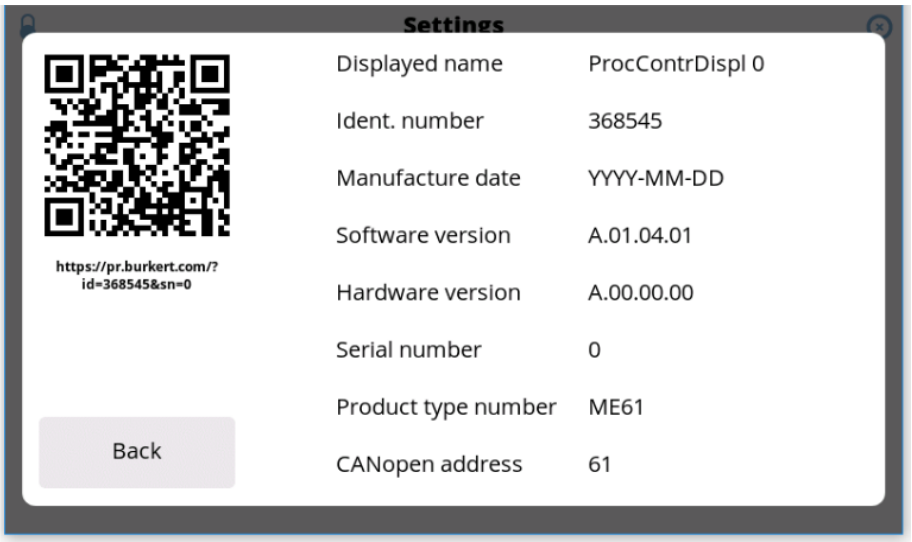


Image 11: QR code

Scanning the QR code on the display can take up to 5 seconds. If the QR code cannot be read, please contact the Bürkert sales office.

The QR code refers to the product page on the Bürkert homepage.

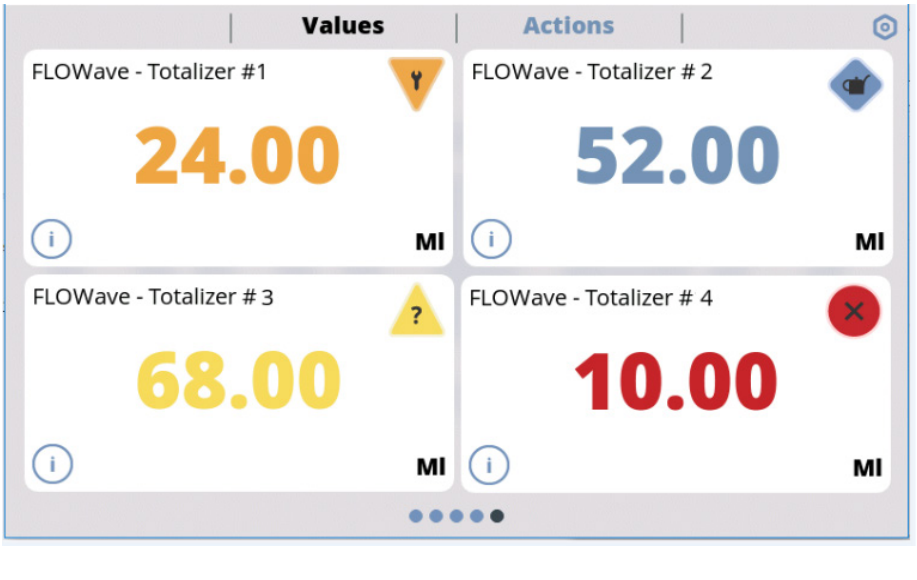


Image 12: NAMUR status

Colour	Meaning
Red	Failure
Orange	Function check
Yellow	Out of specification
Blue	Maintenance required

Table 7: NAMUR status

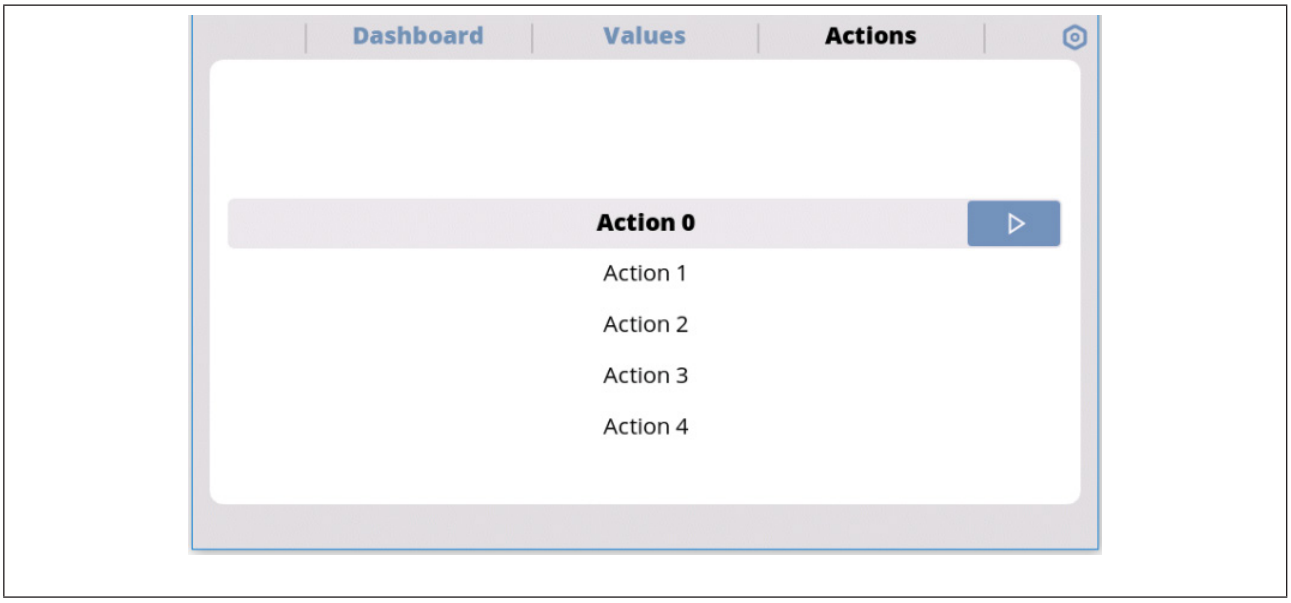


Image 13: Actions

→ Perform action by pressing button ▷.

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

9 START-UP WITH BÜRKERT COMMUNICATOR

The displayed data fields can only be set on a PC with the Bürkert Communicator software; see chapter "9.2 Configuration of the views via Bürkert Communicator".

The Bürkert Communicator software can be downloaded free of charge from the Bürkert website. In addition to the software, the USB-büS-interface, available as an accessory, is required.

This chapter describes the basic use of the Bürkert Communicator. Detailed information on using the Bürkert Communicator software can be found on the Bürkert website at: country.burkert.com → 8920 → Downloads "Operating instructions"

9.1 User interface

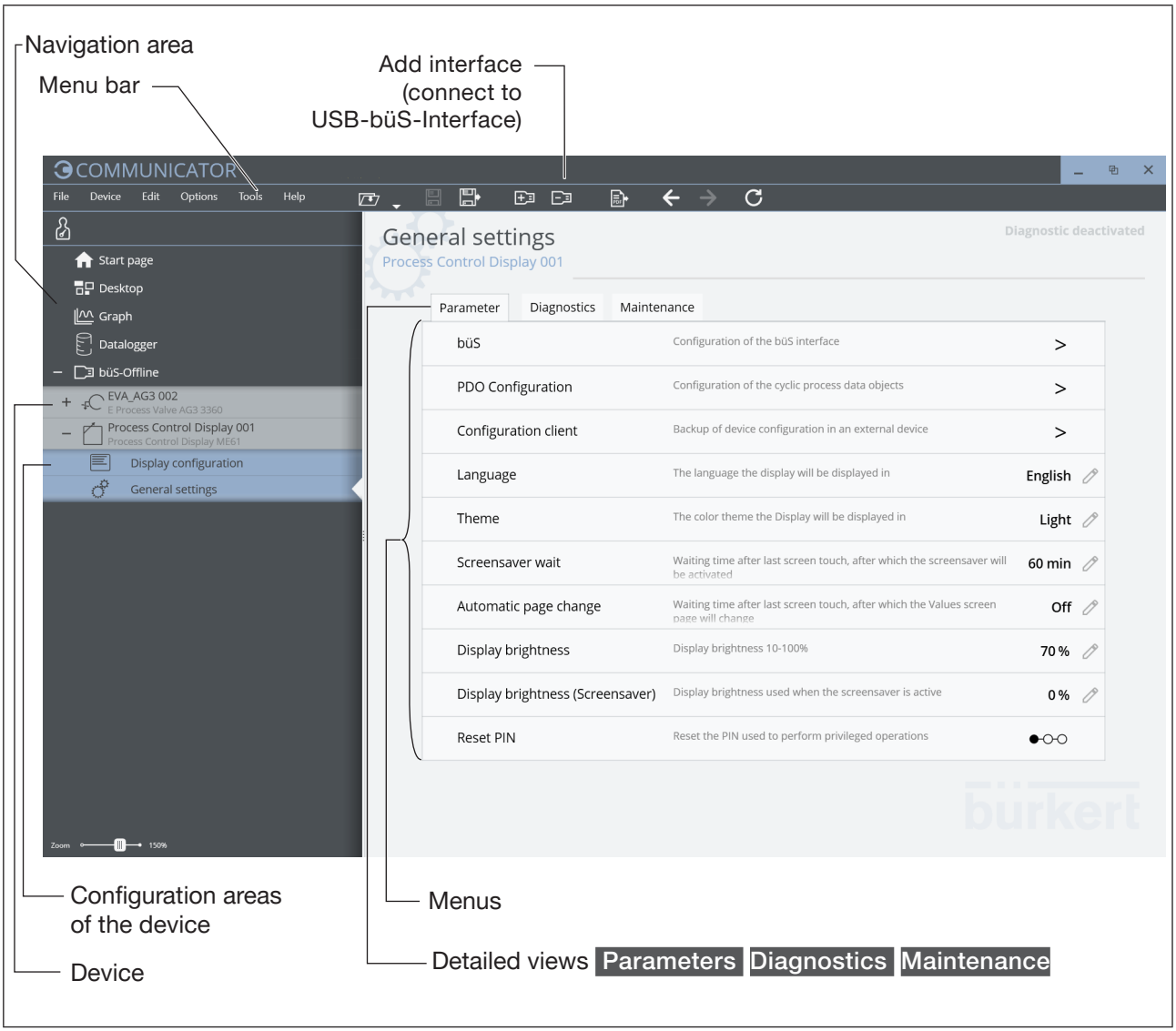


Image 14: Bürkert Communicator user interface

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

9.1.1 Connecting the device to the Bürkert Communicator

The Bürkert Communicator can be connected to the device via a büS network or with the büS stick.

→ Install Bürkert Communicator on the PC.

→ Use the USB-büS-interface to establish the connection between the device and the PC.
Not required for the devices in a büS network.

→ Start Bürkert Communicator.

→ In the menu bar, click the icon for **Add interface**.

→ Select **büS stick** or **büS via network**.

→ **Complete**.

✔ The device is connected to Bürkert Communicator and is displayed in the navigation area.

9.2 Configuration of the views via Bürkert Communicator

→ **Connect to the Bürkert Communicator software.**
See chapter "9.1.1 Connecting the device to the Bürkert Communicator"

→ Select **Display configuration** in the navigation area.

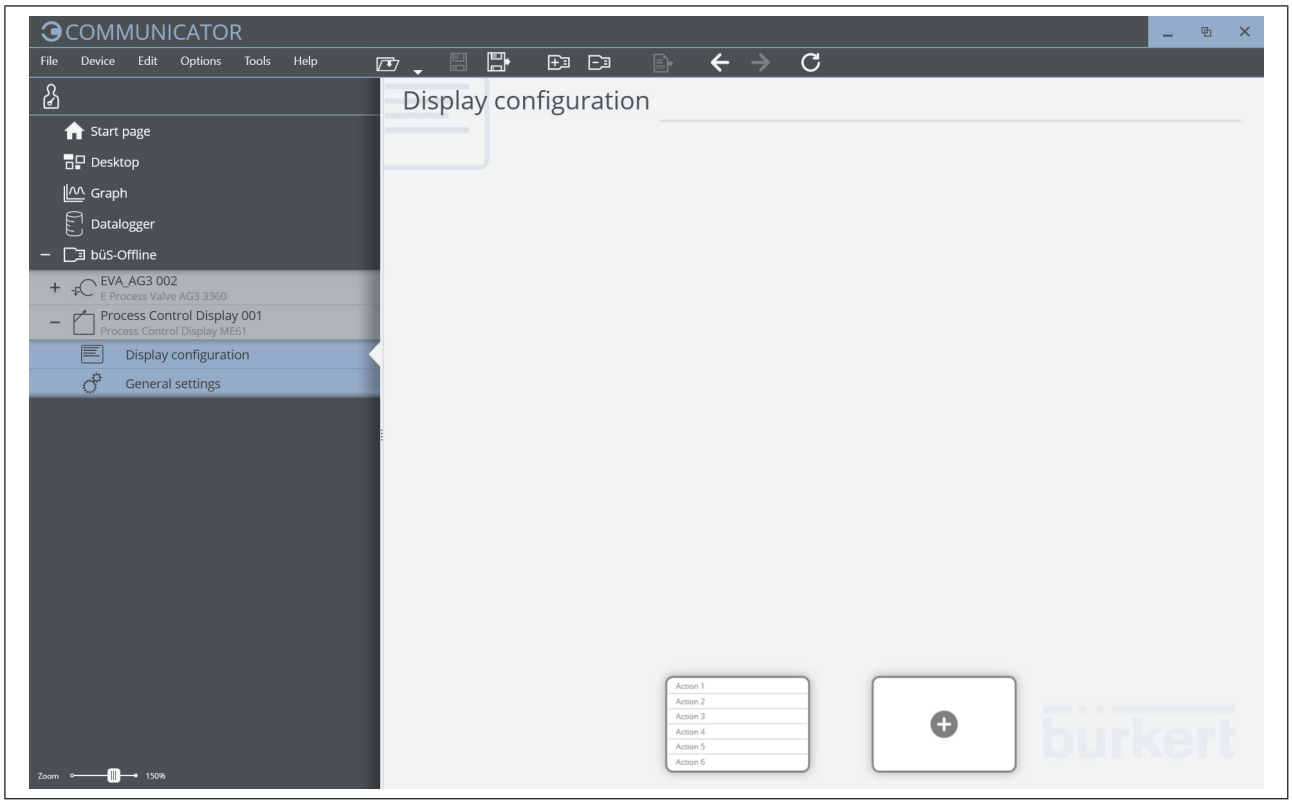


Image 15: Configure display

→ Select button .

→ New layout page is created.

Up to 16 (ProcessControlDisplay) or 1 (ProcessViewDisplay) layout pages can be created. The graph function is only available with the ProcessControlDisplay.

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

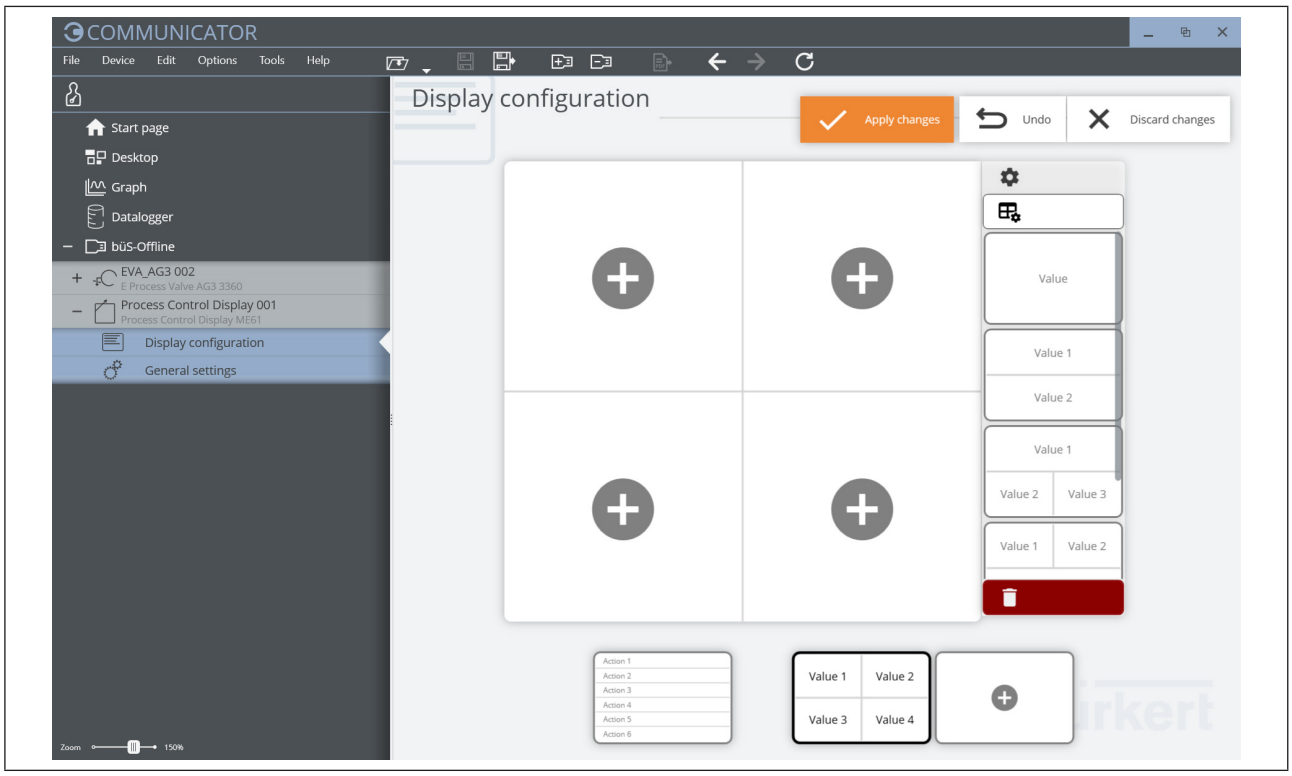


Image 16: Configure layout

→ Select button .

→ Select the division of the layout.

→ Select the button to be configured.

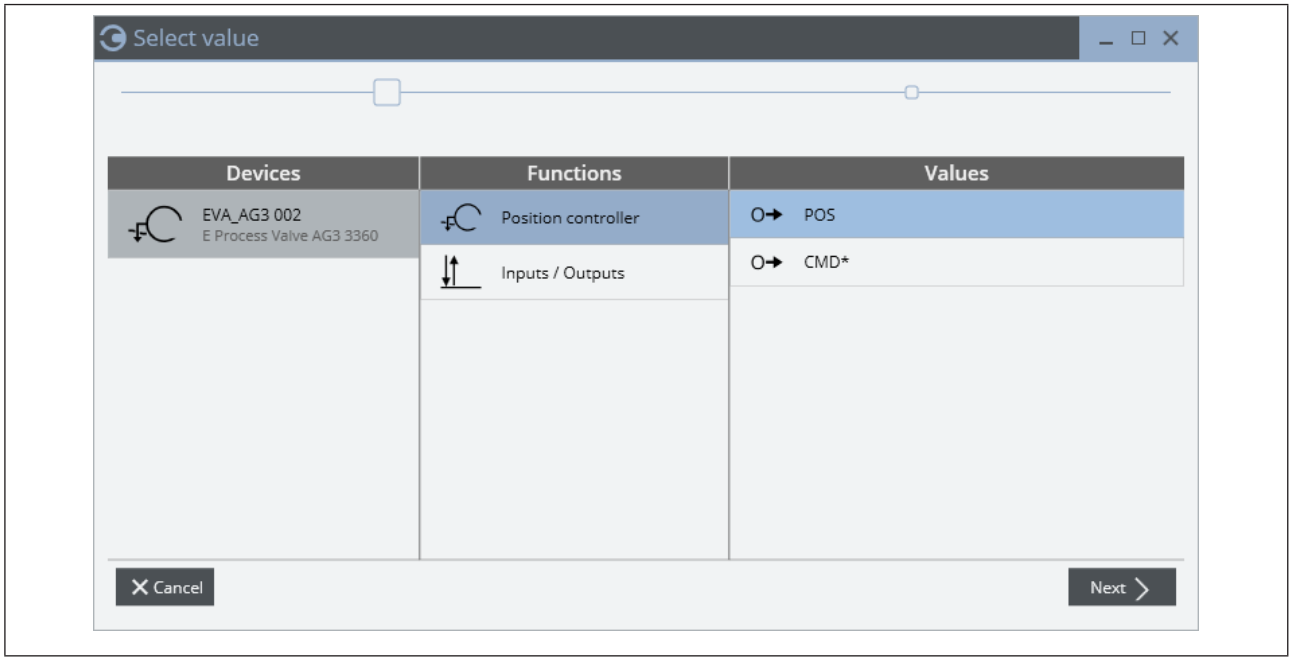


Image 17: Configure data fields

→ Select the value to be displayed.

→ Select the Next button.

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

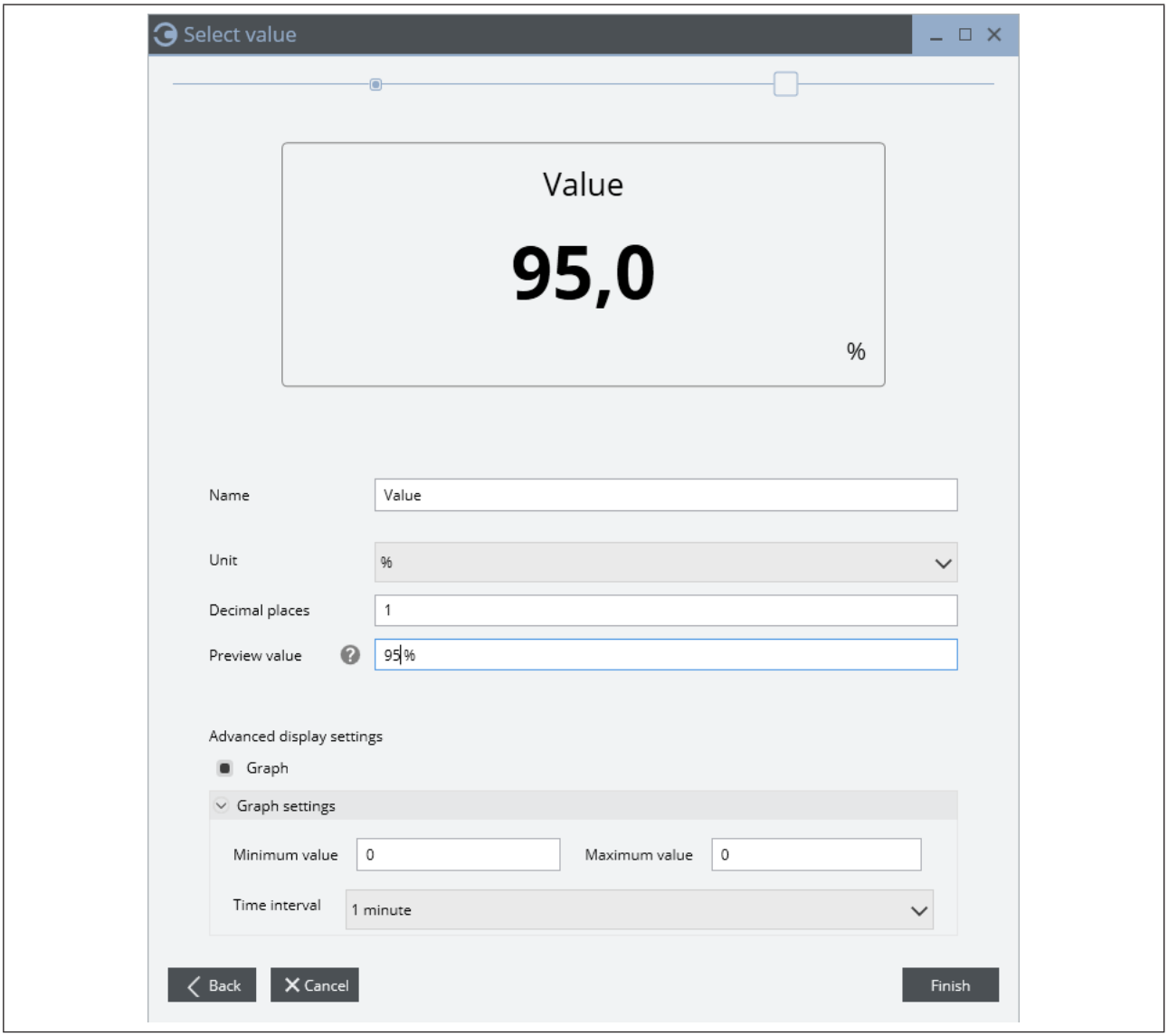


Image 18: Configure value

Name		Function
Simulation value		A simulated value that is displayed to visualise the settings.
Name		Freely selectable name of the value
Unit		Displayed unit
Decimal places		Decimal places displayed
Preview value		Simulated value sent by the selected partner
Activate graph		Graph is displayed (3 curves with 100 measuring points each, average value, minimum value, maximum value)
	Minimum / Maximum	Minimum and maximum displayed value (scaling of the Y-axis)
	Time	Interval of the update and distribution of the 100 measuring points on the X-axis (1 minute to 4 weeks)

Table 8: Layout configuration settings

→ Press **Finish**.

→ Set the remaining desired values.

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

→ Select **Apply changes**.

All configured devices are re-started.

✓ You have configured the views.

Up to 4 values can be displayed.
Depending on the number of selected values, the display is divided into up to 4 squares. (for ProcessViewDisplay)

9.3 Configuration of the automations via Bürkert Communicator (ProcessControlDisplay only)

→ **Connect to the Bürkert Communicator software.**
See chapter "9.1.1 Connecting the device to the Bürkert Communicator"

→ Select **Display configuration** in the navigation area.

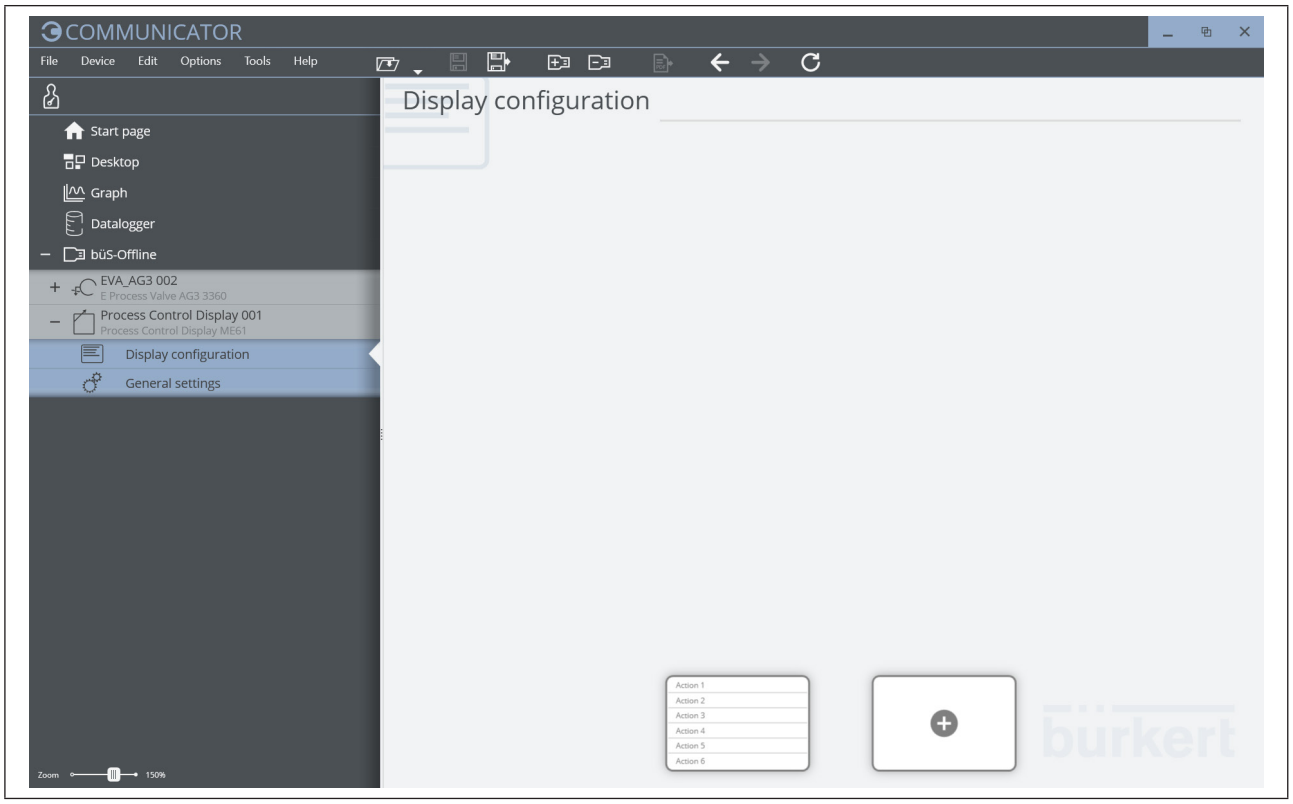


Image 19: Configure display

→ Select button .

→ Automations are called up.

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

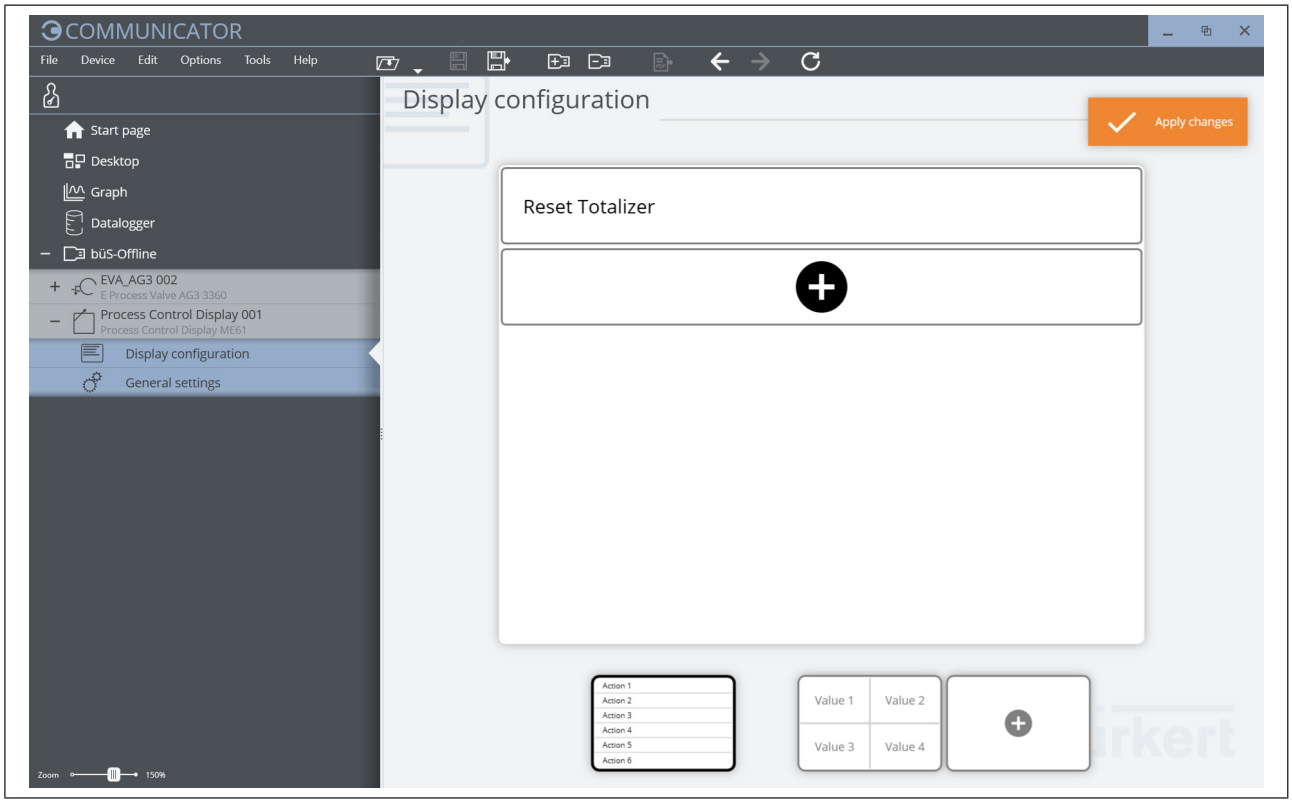


Image 20: Automations

→ Select button ⊕ .

✓ New automation is created.

→ Select existing automation.

✓ Automation is opened.

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

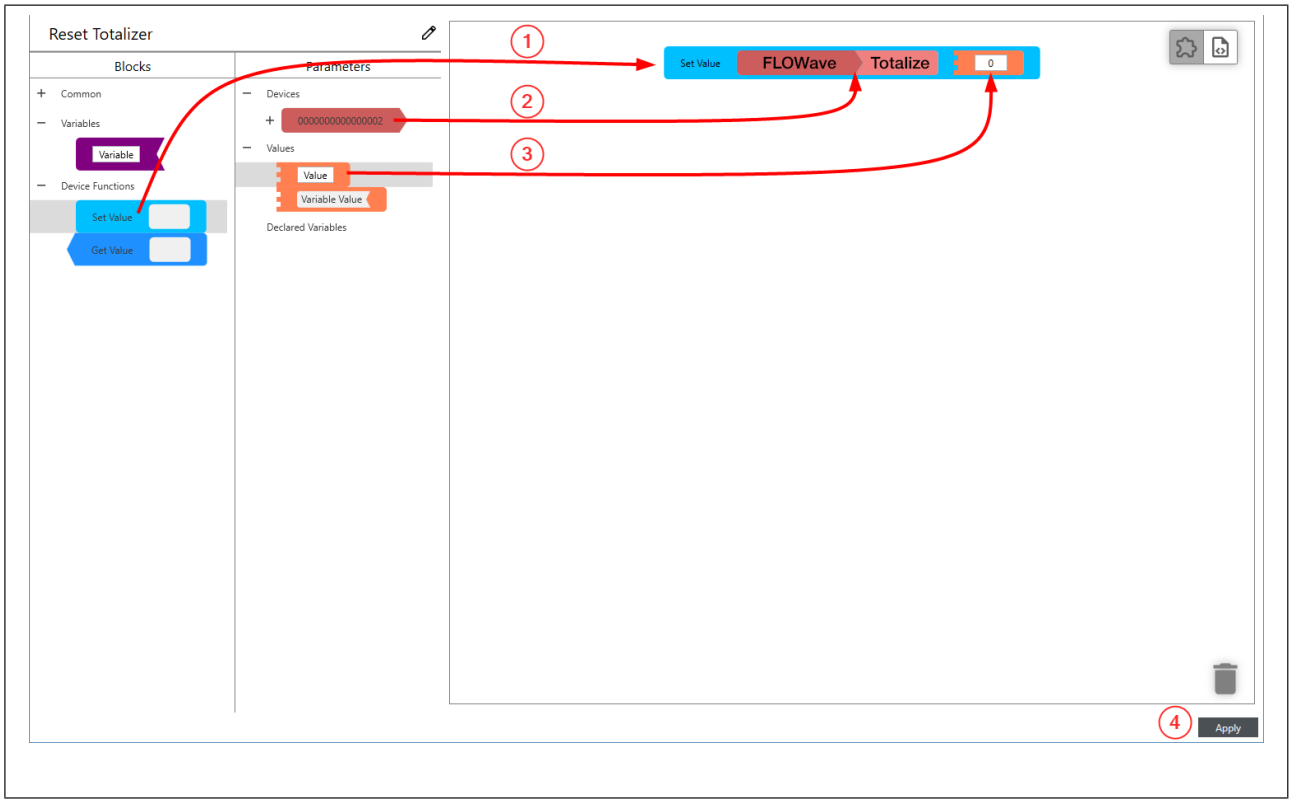


Image 21: Automations (example Reset Totalizer)

→ Drag the desired blocks into the automation area.

Example Reset Totalizer FLOWave:

move ① Set Value into the automation sector.

② Drag device FLOWave Totalize to Set Value.

Drag ③ Value to Set Value and enter the value "0" in the empty field.

④ Press the Apply button.

"Reset Totalizer" automation is completed.

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

9.4 Settings with Bürkert Communicator

The device is set on the PC with Bürkert Communicator.

The upper part of the device display flashes while settings are made with Bürkert Communicator.

9.4.1 Overview of the unit-specific setting options ProcessViewDisplay

The following overview of the setting options contains only the device-specific settings for the ProcessView-Display ME61 and not the description of the Bürkert Communicator software.

The detailed description of the operation and setting of the Bürkert Communicator software can be found on the homepage: www.burkert.com → Type 8920

Communicator: Configuration area General settings			
Detailed view	Setting		
Parameters	büS	Configuration of the büS interface	
		Assign displayed name for display and Bürkert Communicator.	
		Location Specify location displayed for the device.	
		Description Enter description text for tooltips	
		Advanced	Unique device name for partner assignment.
			Specify Baud rate.
			Specify set CANopen address.
			View CANopen address.
			Bus operation mode Set operation mode of the büS interface.
			Show errors from büS partners Set whether and from which consumer errors are displayed.
			Deallocation delay Time from the loss of a consumer until deletion of its configuration.
	Configuration client	Operation mode defines whether the configuration will be managed by another device.	
		Changing operation mode Changing the operation mode between active, inactive and automatic activation.	
	Configuration of the decimal places	Wizard for setting up the decimal places.	

Table 9: Setting options in Bürkert Communicator, configuration area “General settings”, parameters detailed view

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

Communicator: Configuration area General settings			
Detailed view	**Menu**		
Diagnostics	Device status	Operating duration	In these menus, the current values are displayed, not set.
		Device boot counter	
		Transferable memory status	
	büS status	Receive errors Number since restart.	
		Max. receive errors Most serious receive error that was issued in the same way as the device status is displayed. The display can be reset to 0.	
		Send errors Number since restart.	
		Max. send errors Most serious send error that was issued in the same way as the device status is displayed. The display can be reset to 0.	
		Reset error counter	
		CANopen status operational or pre-operational	
	Logbook The logbook lists all warning messages and error messages with details of the type, time and signature. The messages displayed in the logbook can be updated, saved and deleted.		
	Configuration client	Transferable memory status	In these menus, the current values are displayed, not set.
		Status	
		Reconfiguration counter	

Table 10: Setting options in Bürkert Communicator, configuration area “General settings”, diagnostics detailed view

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

Communicator: Configuration area General settings				
Detailed view	Setting			
Maintenance	Device information	Displayed name only displayed if a name was entered in the menu of the same name for the Parameters detailed view.		In these menus, the current values are displayed, not set.
		Identification number of the device.		
		Serial number of the device.		
		Software identification number		
		Software version		
		büS version		
		Hardware version		
		Product type		
		Manufacturing date		
		eds version		
		Device driver	Driver version	
			Firmware group	
			DLL version	
			Place of origin	
	Reset device	Restart Restart the device		
		Factory reset Reset device to factory setting		

Table 11: Setting options in Bürkert Communicator, configuration area “General settings”, maintenance detailed view

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

9.4.2 Overview of the device-specific setting options ProcessControlDisplay

The following overview of the setting options contains only the device-specific settings for the ProcessView-Display ME61 and not the description of the Bürkert Communicator software.

The detailed description of the operation and setting of the Bürkert Communicator software can be found on the homepage: www.burkert.com → Type 8920

Communicator: Configuration area General settings			
Detailed view	Setting		
Parameters	büS	Configuration of the büS interface	
		Assign displayed name for display and Bürkert Communicator.	
		Location Specify location displayed for the device.	
		Description Enter description text for tooltips	
		Advanced	Unique device name for partner assignment.
			Specify Baud rate.
			Specify set CANopen address.
			View CANopen address.
			Bus operation mode Set operation mode of the büS interface.
			Show errors from büS partners Set whether and from which consumer errors are displayed.
			Deallocation delay Time from the loss of a consumer until deletion of its configuration.
	PDO configuration	PDO1	
		PDO2	
		PDO3	
	Configuration client	Operation mode defines whether the configuration will be managed by another device.	
		Changing operation mode Changing the operation mode between active, inactive and automatic activation.	
	Language	Setting the display language.	
	Theme	Switch between light and dark design.	
	Screen saver waiting time	Time after which the screen saver is activated.	
	Automatic page change	Time until the next page of values is displayed.	
	Display brightness	Adjust the display brightness.	
	Display brightness (Screensaver)	Adjust the display brightness of the screen saver.	
	Reset PIN	Resetting the PIN for protected operations	

Table 12: Setting options in Bürkert Communicator, configuration area “General settings”, parameters detailed view

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

Communicator: Configuration area General settings			
Detailed view	**Menu**		
Diagnostics	Device status	Operating duration	In these menus, the current values are displayed, not set.
		Device boot counter	
		Transferable memory status	
	büS status	Receive errors Number since restart.	
		Max. receive errors Most serious receive error that was issued in the same way as the device status is displayed. The display can be reset to 0.	
		Send errors Number since restart.	
		Max. send errors Most serious send error that was issued in the same way as the device status is displayed. The display can be reset to 0.	
		Reset error counter	
		CANopen status operational or pre-operational	
	Logbook The logbook lists all warning messages and error messages with details of the type, time and signature. The messages displayed in the logbook can be updated, saved and deleted.		
	Configuration client	Transferable memory status	In these menus, the current values are displayed, not set.
		Status	
		Reconfiguration counter	

Table 13: Setting options in Bürkert Communicator, configuration area “General settings”, diagnostics detailed view

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

Communicator: Configuration area General settings				
Detailed view	Setting			
Maintenance	Device information	Displayed name only displayed if a name was entered in the menu of the same name for the Parameters detailed view.		In these menus, the current values are displayed, not set.
		Identification number of the device.		
		Serial number of the device.		
		Firmware identification number		
		Firmware version		
		büS version		
		Hardware version		
		Product type		
		Manufacturing date		
		EDS version		
		Device driver	Driver version	
			Firmware group	
			DLL version	
			Place of origin	
	Reset device	Restart Restart the device		
		Factory reset Reset device to factory setting		

Table 14: Setting options in Bürkert Communicator, configuration area “General settings”, maintenance detailed view

10 MAINTENANCE

The display is maintenance-free.

Contact the Bürkert sales department with any questions.

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

11 TROUBLESHOOTING

Problem	Possible cause	Measure
An incorrect value is applied or the value is zero.	The process values are not assigned or are assigned to the wrong participants.	Check the assignment of the process values.
QR code is not recognised.	Poor lighting conditions or contrast.	Scan the QR code for about 5 seconds.

Table 15: Troubleshooting

11.1 Status indicators and measures

The status alerts always refer to the device with the values being displayed.

Displaying status alerts with regard to NAMUR NE 107	Description	Measure
Red	Device defective.	Device requires maintenance – contact the manufacturer.
	Communication with other büS participants not possible.	Connect device to a network with other büS participants.
	Bus error (e.g. short circuit).	Check cables.
	The device has no connection to the PLC.	Check cables. Check device description for the device connection to the PLC.
	Device cannot find the assigned büS participant.	Check whether the büS participant is assigned to the device.
Orange	Search for büS participants is active. Status ends after a few seconds.	If the device status lasts longer than 4 minutes, restart the network.
Yellow	Device temperature outside of specification, destruction of device cannot be ruled out.	Operate the device within the specifications.
	Internal device diagnostics indicate problems in the connected device or its process characteristics.	Perform measure according to logbook notifications.
Blue	Maintenance required	Perform device maintenance.

Table 16: Measures for displaying device status

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

12 ACCESSORIES

CAUTION!

Risk of injury and/or damage due to incorrect parts!

Incorrect accessories and unsuitable spare parts may cause personal injuries and damage to the device and the area around it.

▸ Use only original accessories and original spare parts from Bürkert.

Accessories		Order number
Depending on the type of mounting, please use one of the following fixing sets!		
Mounting set for control cabinet installation ProcessControlDisplay		60011754
Mounting set standard rail mounting ProcessControlDisplay + ProcessViewDisplay		60011755
Mounting set magnet mounting ProcessControlDisplay + ProcessViewDisplay		60011756
USB-büS-interface set 1 (including power supply unit, büS stick, terminating resistor, Y-distributor, 0.7 m cable with M12 plug)		772426
USB-büS-interface set 2 (including büS stick, terminating resistor, Y-distributor, 0.7 m cable with M12 plug)		772551
büS extension cable	0.1 m	772492
	0.2 m	772402
	0.5 m	772403
	1.0 m	772404
	3.0 m	772405
	5.0 m	772406
	10.0 m	772407
	20.0 m	772408

Table 17: Accessories

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

13 DISASSEMBLY

WARNING!

Risk of injury due to improper disassembly.

- Disassembly must only be performed by trained technical personnel.

1. Switch off the supply voltage.
2. Remove 5-pin plug from the socket in the fieldbus gateway.
3. Disassemble the unit in reverse order to assembly (see chapters “7.2” to “7.5”).

14 PACKAGING, TRANSPORT

NOTE!

Damage in transit due to inadequately protected devices.

- Protect the device against moisture and dirt in shock-resistant packaging during transportation.
- Observe permitted storage temperature.

15 STORAGE

NOTE!

Incorrect storage may damage the device.

- Store the device in a dry and dust-free location.
- Storage temperature: -30 – +80 °C.

16 DISPOSAL

NOTE!

Damage to the environment caused by device parts contaminated with media.

- Dispose of the device and packaging in an environmentally-friendly manner.
- Observe applicable disposal and environmental regulations.

Adhere to the national waste disposal regulations.

MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

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MAN 1000448049 EN Version: C Status: RL (released | freigegeben) printed: 20.07.2022

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