EDIP process display

- Display with büS Interface (CANopen) in 3.5" (8.9 cm) and 7" (17.8 cm) size
- Displays up to 4 or 64 process values and parameters as well as associated status information
- Graphic display of time elapsed and touch functionality for entering process parameters and executing configurable actions (7" display)
- Easy integration and combination with other devices in the Bürkert EDIP platform
- Flexible mounting options for DIN rail clip, pipe mounting and wall mounting with a magnetic holder

Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with

Type 8741 ▸
Mass flow controller (MFC)/ mass flow meter (MFM) for gases

Type 8906 ▸
Online water analysis system

Type 8905 ▸
Online water analysis system

Type description

The process view display Type ME61 extends the EDIP (Efficient Device Integration Platform) with an easily attachable display for process parameters. The device provides a Bürkert system bus interface (büS) using an M12 connector which allows easy integration with existing büS or CANopen environments. Using the EDIP configuration tool (Bürkert Communicator) the ME61 can be easily set up to display the desired information.

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Visit product website ▸

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "3. Dimensions" on page 5.
Weight	0.2 kg (3.5")...0.35 kg (7")
Material	
Body	PC (polycarbonate)
Status display	Integrated in the display for status indication of the connected devices (according to configuration)
Electrical data	
Operating voltage	24 V DC ± 10 %, residual ripple 10 % [1)]
Power consumption of the module	3 W
Product connections	
Communication interface	Bürkert system bus (büS) for integration of the display into a büS-/CANopen network via X1 (M12 connector)
Electrical connection	M12, A-coded, 5-pin plug (integrated with communication interface X1)
Approvals and conformities	
Further information can be found in chapter "2. Approvals and conformities" on page 4.	
Environment and installation	
Ambient temperature	- 20 °C...+ 60 °C
Storage temperature	- 30 °C...+ 80 °C
Degree of protection	IP65, IP66, IP67 and IP69K
Height above sea level	Maximum 2000 m

1.) The requirements of all connected components must be taken into consideration when selecting the power supply.

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2. Approvals and conformities

2.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

2.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

2.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

2.4. Explosion protection

Approval	Description
	Optional: Explosion protection **ATEX:** EPS 24 ATEX 1 079 X II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIC T130 °C Dc **IECEx:** IECEx EPS 24.0015X Ex ec IIC T4 Gc Ex tc IIIC T130 °C Dc

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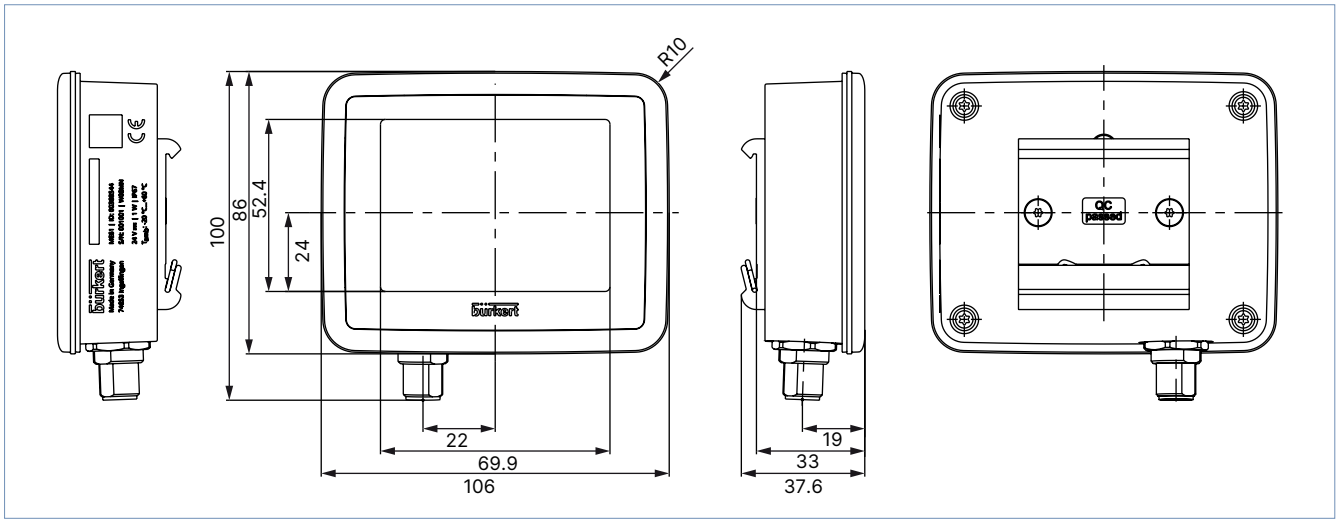
3. Dimensions

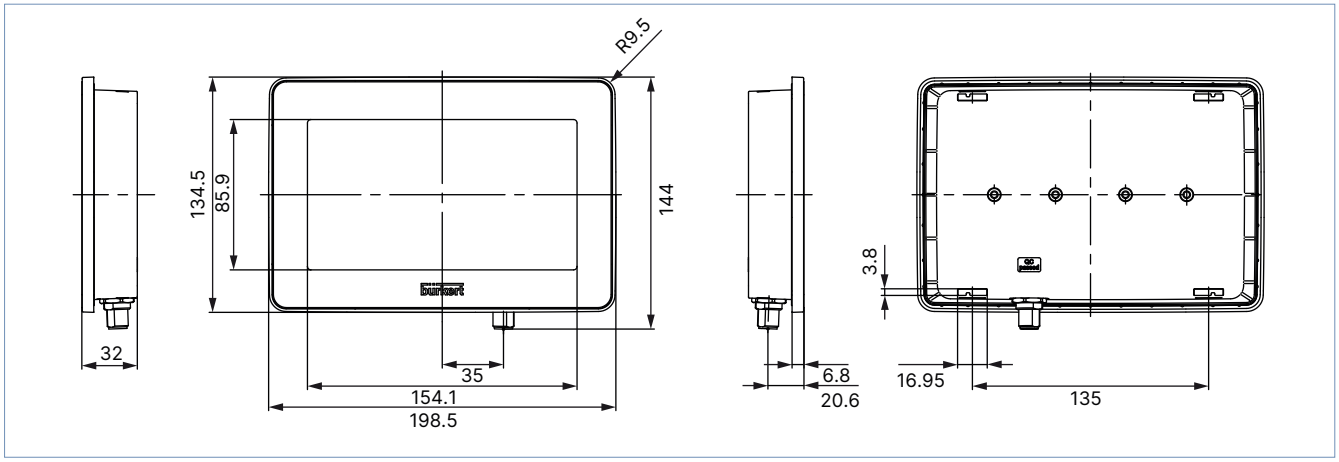
3.1. Display Type ME61 (3.5")

Note:
Dimensions in mm, unless otherwise stated



3.2. Display Type ME61 (7")

Note:
Dimensions in mm, unless otherwise stated



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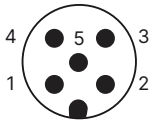
4. Product connections

4.1. Pin assignment

M12, X1 (plug), A-coded, 5-pin	Pin	Assignment	Function
	1	FE/CAN_GND	Shielding
	2	24 V	Power supply
	3	GND	Power supply
	4	CAN_H	büS/CANopen communication
	5	CAN_L	büS/CANopen communication

5. Product design and assembly

5.1. Product features

Display Type ME61 (3.5")

Function
Visualisation of up to 4 process values in a büS/CANopen network

Communication/Power supply
büS/CANopen, M12, power A-coded, 5-pin

Display Type ME61 (7")

Function

- Visualisation of up to 64 process values in a büS/CANopen network
- Graphical display of time curves of process values
- Programmable touch function for triggering functions

Communication/Power supply
büS/CANopen, M12, A-coded, 5-pin

6. Product accessories

6.1. EDIP – Efficient Device Integration Platform

EDIP is a Bürkert device platform that standardises the operation, communication and interfaces of many process devices (e.g. sensors, mass flow controllers). Thanks to EDIP, devices can be intelligently networked and operated with the standardized software, the Bürkert Communicator. The backbone and connecting link of EDIP is a digital interface that complies with the CANopen standard and can always be used in a manner compatible with it.

EDIP offers the user the following advantages:

- Interoperability - guaranteed by the uniform interface
- Comfortable operation and display concept
- Faster and simplified commissioning
- Modularity - allows the devices to be adapted to individual customer requirements
- Easy transfer and fusion of device settings

6.2. Bürkert Communicator software

Note:
The associated communication software can be downloaded under **Type 8920** ▶.

The Bürkert Communicator is the most important software tool of the device platform EDIP (Efficient Device Integration Platform). The extensive features of this universal tool facilitate the configuration and parameterisation of all devices equipped with the digital CANopen-based interface. The Bürkert Communicator provides the user with a complete overview of all cyclic process values and acyclic diagnostic data. The integrated graphical programming environment enables the creation of control functions for decentralised sub-systems. The connection to the PC can be established via a USB-büS interface set. This is available as an accessory, see **"8.4. Ordering chart accessories" on page 10**.

The Bürkert Communicator enables:

- Configuration, parameterisation and diagnosis of EDIP devices/networks
- Easy and convenient assignment (mapping) of cyclical values
- Graphical display of process values
- Firmware update of the connected EDIP devices
- Saving and restoring device configurations

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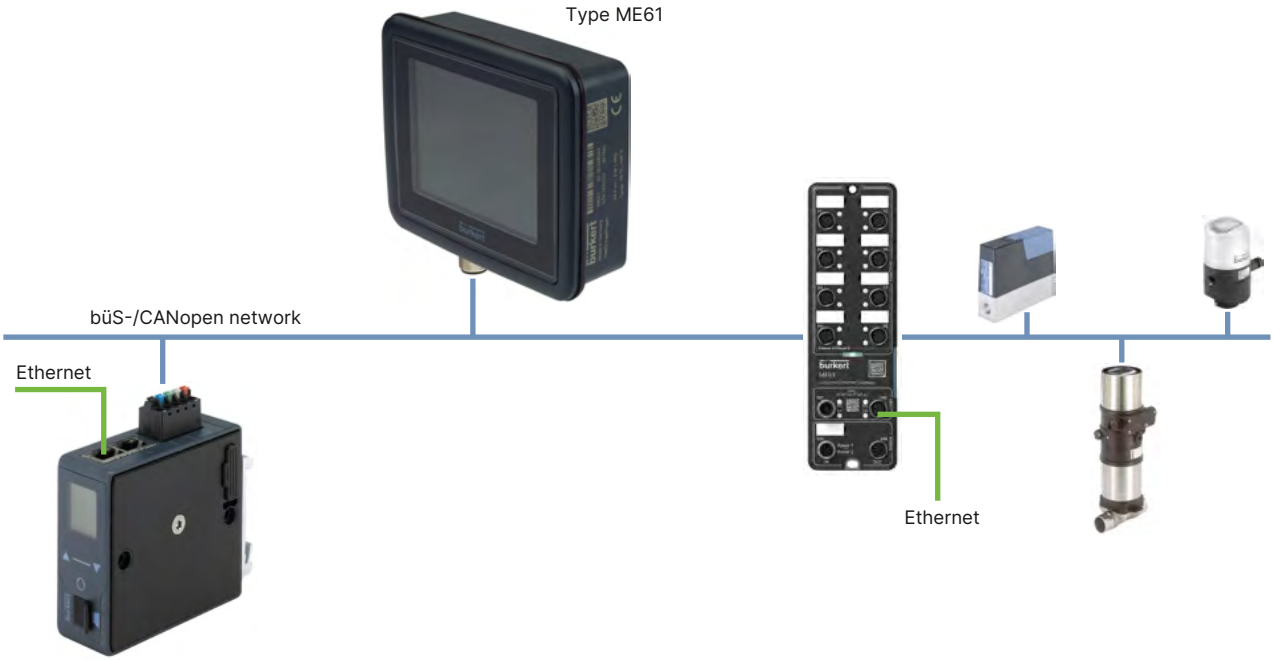
7. Networking and combination with other Bürkert products

Note:

- Lengths of drop lines should not be longer than 5 m.
- Signal integrity measurement is recommended for star cabling of more extensive networks.
- See also **cabling guide** ▶



Short description of the illustrated example:

- Connection of 6 Bürkert devices via büS/CANopen network
- All büS devices can be reached via gateway over Ethernet.
- Type ME43 or Type ME63 Industrial Ethernet gateway can also connect complex büS systems to higher-level Ethernet networks.
- A total of up to 126 büS/CANopen devices can be connected to one gateway.
- Type ME61 can be configured to display up to 4 arbitrary values of the büS devices in the network.
- Other Type ME61 (3.5") devices ca be connected to the büS network to display additional parameters.

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8. Ordering information

8.1. Bürkert eShop

Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

8.2. Bürkert product filter

Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements?
Use the Bürkert product filter and find suitable articles for your application quickly and easily.

Try out our product filter

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8.3. Ordering chart

Article	Article no.
Process View Display Type ME61 (3.5")	368544
Process Control Display Type ME61 (7")	368545
Process Control Display Type ME61 (7") ATEX	20095737

8.4. Ordering chart accessories

Article	Article no.
Magnet holder for Type ME61	394071
Type ME61 (7") switch cabinet mounting set	60011754
Set standard rail mounting Type ME61	60011755
büS cable extension, M12, cable length: 0.1 m	772492
büS cable extension, M12, cable length: 0.2 m	772402
büS cable extension, M12, cable length: 0.5 m	772403
büS cable extension, M12, cable length: 1 m	772404
büS cable extension, M12, cable length: 3 m	772405
büS socket, M12, straight, A-coded [1.)]	772416
büS plug, M12, straight, A-coded [1.)]	772417
büS socket, M12, angled, A-coded [1.)]	772418
büS plug, M12, angled, A-coded [1.)]	772419
büS Y plug	772420
büS Y plug for linking 2 separately supplied segments of a büS network	772421
büS plug, M12, terminating resistor 120 Ω	772424
büS socket, M12, terminating resistor 120 Ω	772425
Power supply unit Phoenix Class2 (Type 1573), 85...240 V AC/24 V DC, 1.25 A, NEC Class 2 (UL 1310)	772438
Power supply unit for standard rail (Type 1573), 100...240 V AC/24 V DC, 1 A, NEC Class 2 (UL 1310)	772361
Power supply unit for standard rail (Type 1573), 100...240 V AC/24 V DC, 2 A, NEC Class 2 (UL 1310)	772362
Power supply unit for standard rail (Type 1573), 100...240 V AC/24 V DC, 3.8 A, NEC Class 2 (UL 60950 - 1)	772898
Power supply unit for standard rail (Type 1573), 100...240 V AC/24 V DC, 10 A	772698
büS stick set 1 (incl. cable (M12), stick with integrated terminating resistor, power supply and software)	772426
büS stick set 2 (incl. cable (M12)), stick with integrated terminating resistor	772551
Bürkert Communicator software	**Type 8920** ▶

1.) For space reasons, M12 individual push-in connectors may not be suitable for simultaneous use on the same side as a Y distributor. Use a commercially available covered cable in this case.

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