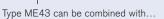
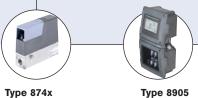
ME43











automation of sub-systems

Type 8652

Installation

Graphical programming for

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Fieldbus Gateway Type ME43

Gateway for Industrial Ethernet and Fieldbus standards

Easy integration in the process control system ensured

through system specific device description files

• Up to 128 input and 128 output variables can be assigned

The Fieldbus Gateway of Type ME43 is the central control unit for Bürkert devices (valves, sensors, mass flow controller or displays), which are based on EDIP ("Efficient Device Integration Platform"). The basic version of the system consists of a Fieldbus Gateway Type ME43 and can be extended with several IO modules. The Fieldbus Gateway transmits the internal CANopen based communication of the Bürkert field devices to industrial standards for Industrial Ethernet and fieldbus.

With the help of the graphical programming sub-systems can be automated specifically to the customer's needs. (For e.g. controlled mixing of gases, error monitoring through switching commands, timer switches etc.)

Technical data	
Housing material	PC (Polycarbonate)
Gateway functionality (Integrated switch for Industrial Ethernet)	PROFINET EtherNet/IP Modbus/TCP PROFIBUS DPV1 EtherCAT
Configuration storage	Micro SD Card (for storing device parameters, configuration and easy replacement of a module)
Operating voltage	24V DC +/- 10% - residual ripple 10%
Light diodes Housing (external)	RGB-LED based on NAMUR NE107
Power consumption	2W
Ambient temperature	-20+60 °C
Protection class ME43 (Fieldbus Gateway)	IP20

Horizontal or vertical on DIN rail EN 50022





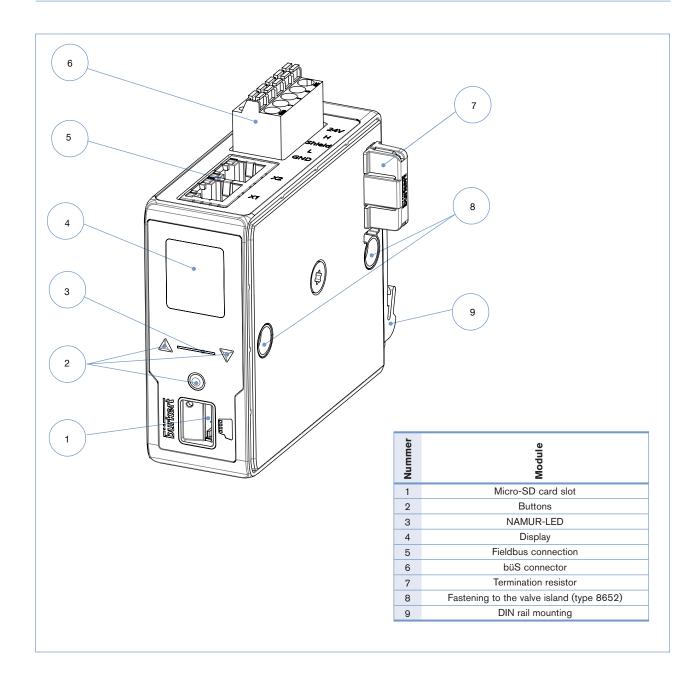
EDIP – Efficient Device Integration Platform

EDIP is the new Bürkert device platform which will in the future standardise the operation, communication and interfaces of many process devices (e.g. Sensors, Mass Flow Controller). Thanks to EDIP the devices can be intelligently networked and operated with with the consistent Software, the Bürkert Communicator. The backbone and connecting link of EDIP is the digital interface which complies with the CANopen standard and is always downwards compatible to it. EDIP offers following advantages to the user:

Interoperability - guaranteed by the uniform interface

- Comfortable operating and display concept
- Fast start-up and easy commissioning
- Modularity allows adjustment of the devices to individual customer requirements
- Easy transfer and backup of device settings

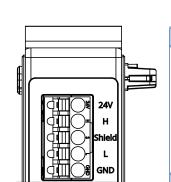
Fieldbus Gateway ME43



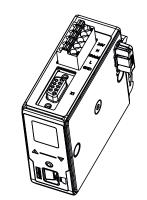


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Pin assignment







Spring terminal 5-pin	Color	Assignment
		Supply voltage 24 V DC
		CAN H (büS-connection)
Shield	Green	SHIELD
		CAN L (büS-connection)
		GND
Interface X1 and X2	Pin	Assignment
		TX+
	2	TX-
	3	RX+
	4	N.C.
		N.C.
	6	RX-
	7	N.C.
	8	N.C.
D-SUB 9-pin female	Pin	Assignment
	1	SCHIRM
		M24 (optional)
		RxD/TxD-P (B-Line)
		CNTR-P (optional)
		DGND
		+5 V (Supply for the ter- mination resistor)
		+24 V (optional)
		RxD/TxD-N (A-Line)
	9	CNTR-N (Optional)
Nete		

Note:

1) The disconnect resistor can be plugged in easily to the right of the module.

2) CANopen requires two termination resistors: one at the beginning and one at the end of the network. An indicator of the correct bus termination is the resistance between CAN_H and CAN_L when the power supply is disconnected; this should be about 60 Ohm.

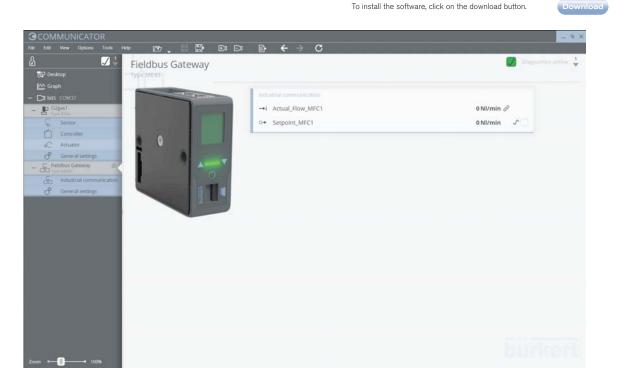


Software Bürkert Communicator

The Bürkert Communicator is the most important software component of the "Efficient Device Integration Platform' (EDIP). Various features of this universal tool simplify the configuration and parameterization of devices equipped with a digital CANopen based interface. With this tool the user has a complete overview of cyclic process values as well as acyclic diagnosis data. In the near future, an integral part of the Communicator will be a graphical programming environment which will help in creating decentralized sub-system control functions. The connection to the PC is established with a USB-CAN adapter.

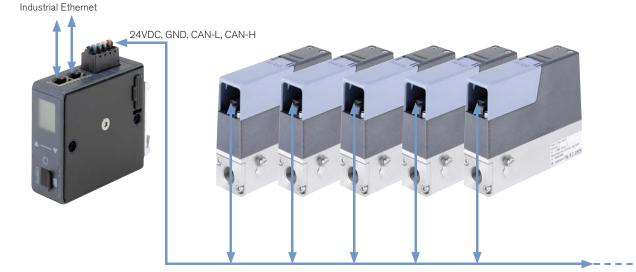
The communicator allows:

- Configuration, parameterisation and diagnosis of EDIP devices / networks
- Easy and comfortable mapping of cyclic values
- Graphical display of process values
- Firmware update for the connected EDIP devices
- Backup and restoring of device configurations
- Recalibration routine controlled



Operation in a network

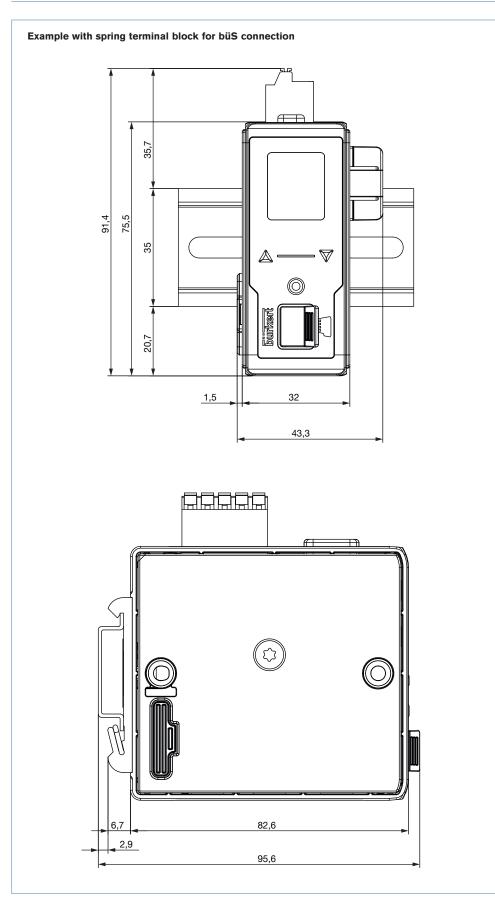
Example of a network with Gateway ME43 and MFCs







Dimensions [mm]



ME43

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Ordering chart for accessories

Article	Item No.
büS cable extension M12 0.1m	772 492
büS cable extension M12 0.2m	772 402
büS cable extension M12 0.5m	772 403
büS cable extension M12 1m	772 404
büS cable extension M12 3m	772 405
Connector M12, female, straight ¹⁾	772 416
Connector M12, male, straight 1)	772 417
Connector M12, female, angled ¹⁾	772 418
Connector M12, male, angled 1)	772 419
Y connector	772 420
Y connector for connecting two separately powered segments of a büS network	772 421
Termination resistor (directly pluggable)	303 833
Termination resistor 120 Ohm M12 male	772 424
Termination resistor 120 Ohm M12 female	772 425
Power supply Type 1573 for rail mounting, 100-240 V AC/ 24V DC, 1.25A, NEC Class 2 (UL 1310)	772 438
Power supply Type 1573 for rail mounting, 100-240 V AC/ 24V DC, 1A, NEC Class 2 (UL 1310)	772 361
Power supply Type 1573 for rail mounting, 100-240 V AC/ 24V DC, 2A, NEC Class 2 (UL 1310)	772 362
Power supply Type 1573 for rail mounting, 100-240 V AC/ 24V DC, 4A	772 363
Micro SD Card	on request
büS-Stick Set 1 (incl. cable (M12)), stick with integrated termination resistor, power supply and software	772 426
büS-Stick Set 2 (incl. cable (M12)), stick with integrated termination resistor	772 551
License for graphical programming (only when > 10 blocks are required)	567 713
Software Bürkert Communicator	http://www.burkert.com/en/ type/8920

¹⁾ Due to lack of space, the M12 single connectors may not be suitable for their simultaneous use on the same side of the Y connector. Please use the available ready-made assembled cable in this case.