bürkert
FLUID CONTROL SYSTEMS

Liquid Flow Controller (LFC) / Liquid Flow Meter (LFM) for liquids

- Highly dynamic closed-loop control through fast flow measurement and fast proportional valve
- Suitable for the dosing of flow rates up to 600 ml/min (36 l/h)
- Use with media with a viscosity of 0.4 to 4 mPa·s possible
- Closed-loop control of outgassing media such as H_2O_2 or methanol is possible.
- Degree of protection IP65

Product variants described in the data sheet may differ from the product presentation and description. The German or English (EU) data sheet is the master version. Other language versions may be temporarily out of date and will be updated accordingly.

Can be combined with

Type ME43 ▸
Fieldbus gateway

Type ME63 ▸
Industrial Ethernet Gateway, IP65/IP67/IP69k

Type description

Type 8752 is a device for closed-loop control of the flow rate of liquids in process technology. The actual value provided by the sensor is compared in the digital control unit with the specified set-point value. If there is a control difference, the actuating variable output to the proportional valve is modified using a PI control algorithm. This means that the flow rate can be kept at a fixed value or followed a predetermined profile, regardless of pressure fluctuations or other changes in the system. A low-friction proportional valve as an actuator ensures high response sensitivity and good control characteristics of the device.

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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 "4. Dimensions" on page 5.
Material	
Seal	FKM, EPDM, FFKM
Housing	Aluminium (painted)
Base block	Stainless steel 1.4404/316L
Wetted materials	Stainless steel 1.4401/316, 1.4404/316L, 1.4435/316L, PCTFE, seal Valve: 1.4310/302, 1.4113/434, 1.4305/303
Total weight	Approx. 1000 g
Configuration management	Further information can be found in chapter "7.3. Configuration management for easy device replacement" on page 14.
LED display [1.]	RGB-LED according to NAMUR NE107
Performance data	
Nominal flow range	Max. 36 l/h (600 ml/min) (water)
Operating pressure [2.]	LFM: max. 6 bar LFC: max. 6 bar (the maximum operating pressure depends on medium and nominal valve size)
Measuring accuracy [3.]	± 1.5 % MV [4.] ± 0.5 % FS [5.] (under calibration conditions)
Repeatability	± 0.5 % FS
Turndown ratio	1:10 (higher on request)
Typical response time (t95)	< 500 ms
Electrical data	
Operating voltage	24 V DC
Power consumption	LFM: < 1 W LFC: max. 3...6 W (depending on valve type)
Residual ripple	± 2 %
Voltage tolerance	± 10 %
Electrical connection	
büS/CANopen variant	M12 plug, 5-pin
Analogue variant	M12 plug, 5-pin, M12 socket, 5-pin
Industrial Ethernet variant	M12 plug, 5-pin, 2 x M8 sockets, 4-pin
PROFIBUS DPV1 variant	M12 plug, 5-pin, M12 socket, 5-pin
Medium data	
Operating medium	Clean [6.] and low-viscosity liquids
Calibration medium	Water
Medium temperature	-10 °C...+ 40 °C
Viscosity	0.4...4 m·Pas
Product connections	
Analogue interface	0...20 mA, 4...20 mA, 0...10 V, 0...5 V Input impedance: > 20 kΩ (voltage) or < 300 Ω (current) Maximum current: 10 mA (voltage output) Maximum load: 400 Ω (current output)
Digital communication interface	büs/CANopen, PROFIBUS DPV1, Industrial Ethernet: EtherCAT®, EtherNet/IP, Modbus TCP, PROFINET (all via fieldbus)
Port connection	G ⅛, NPT ⅛, G ¼, NPT ¼, sub-base, tri clamp TG02, compression fitting or vacuum fitting
Approvals and conformities	
Certificate	Material certificate 3.1 (optional)
Environment and installation	
Installation position	Horizontal or vertical
Storage temperature	-10 °C...+ 70 °C
Relative air humidity	Max. 95 % at + 55 °C, non-condensing
Degree of protection	IP65
Ambient temperature	0 °C...+ 55 °C

Accessories	
Software	Bürkert Communicator Further information can be found in chapter "7.1. Bürkert Communicator software" on page 13.

1.) For a detailed description of LED colours, see **operating instructions for Type 8752** ▸
2.) Overpressure to atmospheric pressure
3.) If the operating medium differs from the calibration medium, the actual measuring accuracy may deviate from the specified value.
4.) Of measured value
5.) Of full scale
6.) Particle size < 35 µ

2. Approvals and conformities

2.1. General notes

Note:

- 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 approvals or conformities indicated below.

2.2. Conformity

In accordance with the EU 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.

3. Materials

3.1. Bürkert resistApp

Bürkert resistApp – Chemical resistance chart

Want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start chemical resistance check

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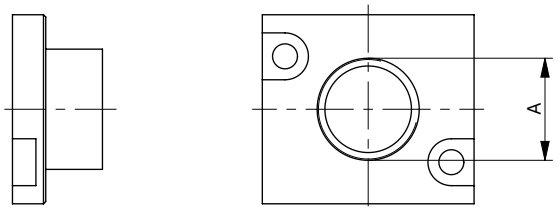
4. Dimensions

4.1. Threaded variant connections

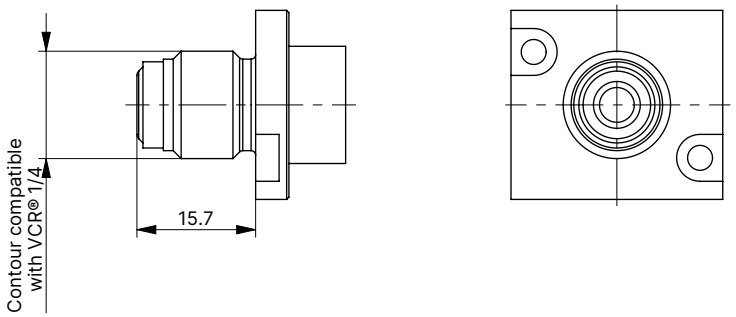
Small nominal flow rates, with internal thread



Thread (A)	Thread depth [mm]
G ¼, NPT ¼,	12
G ⅛, NPT ⅛	8

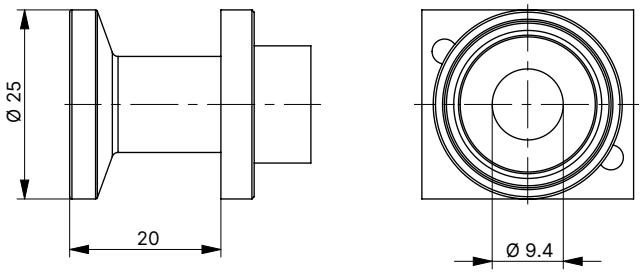
Small nominal flow rates, compatible with VCR®

Note:
Dimensions in mm



Small nominal flow rates, with clamp connection DN 15...½"

Note:
Dimensions in mm



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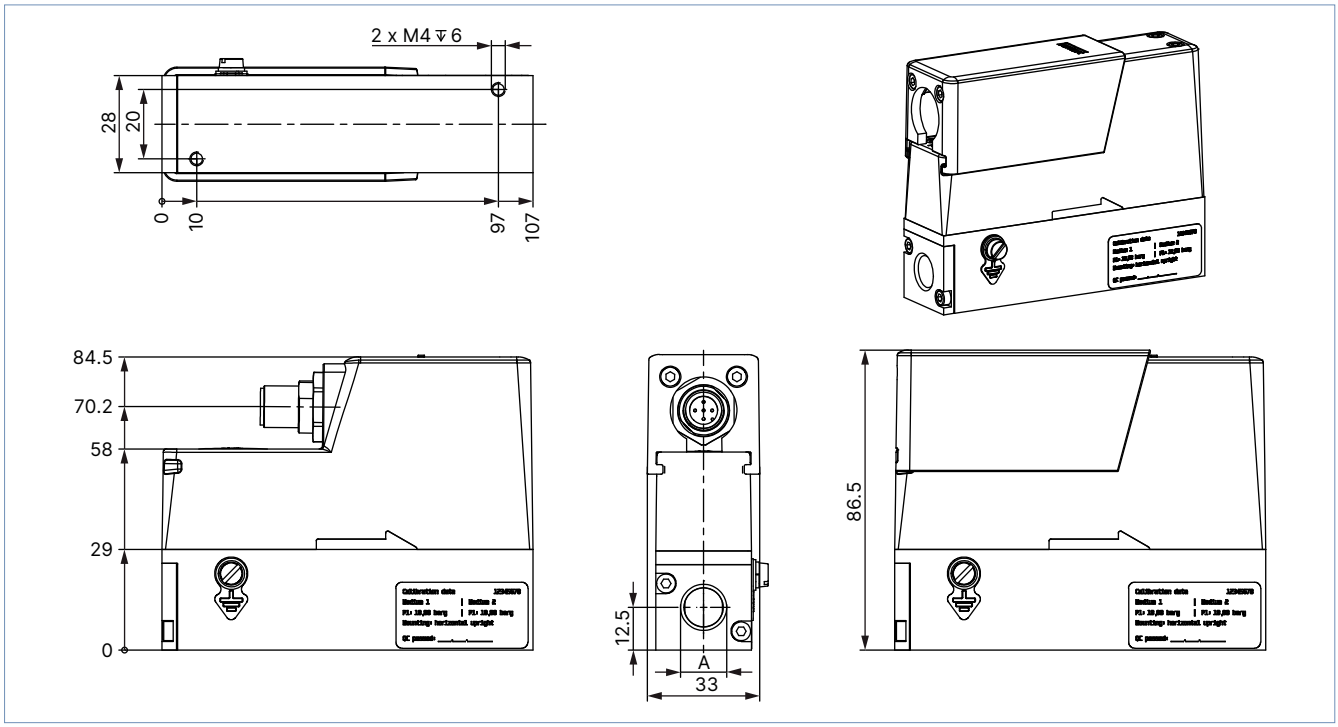
4.2. Variant with büS/CANopen interface

LFC or LFM with integrated valve

Note:
Dimensions in mm



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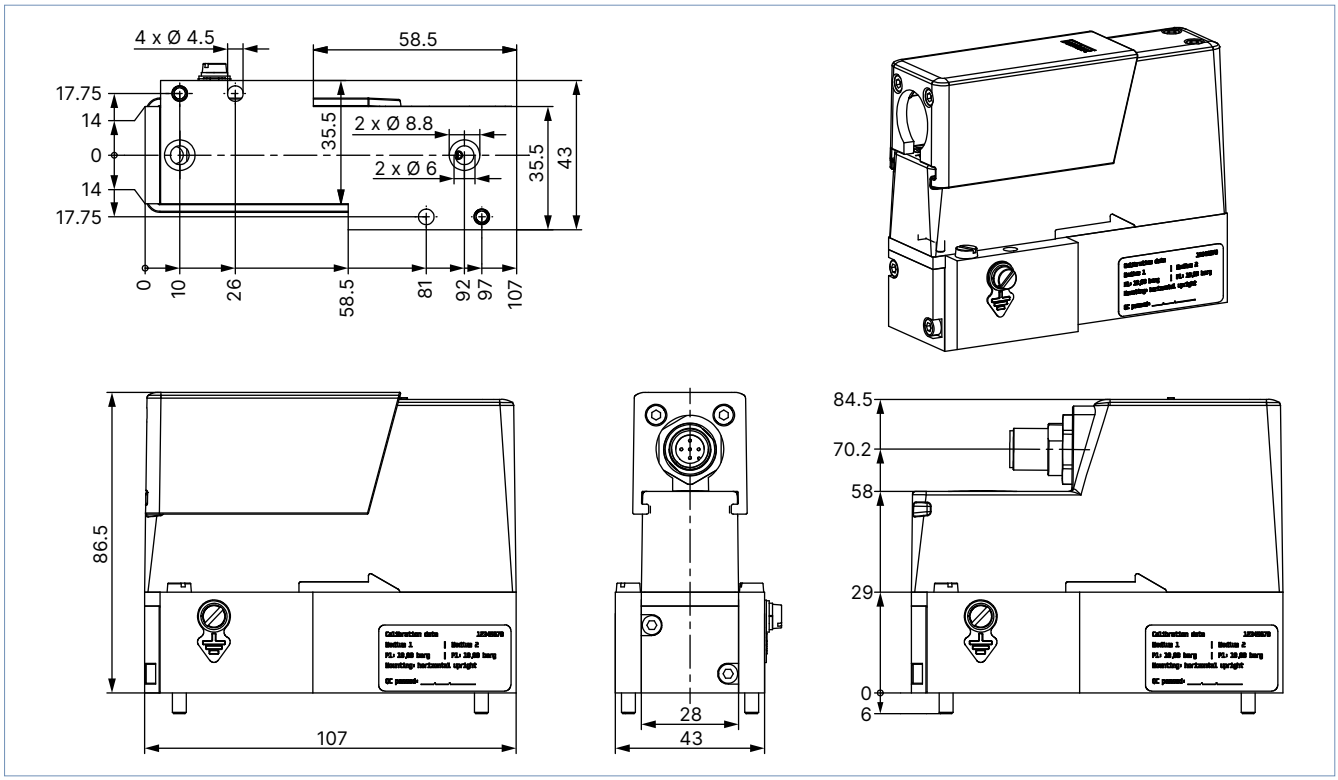
Sub-base variant

Note:
Dimensions in mm



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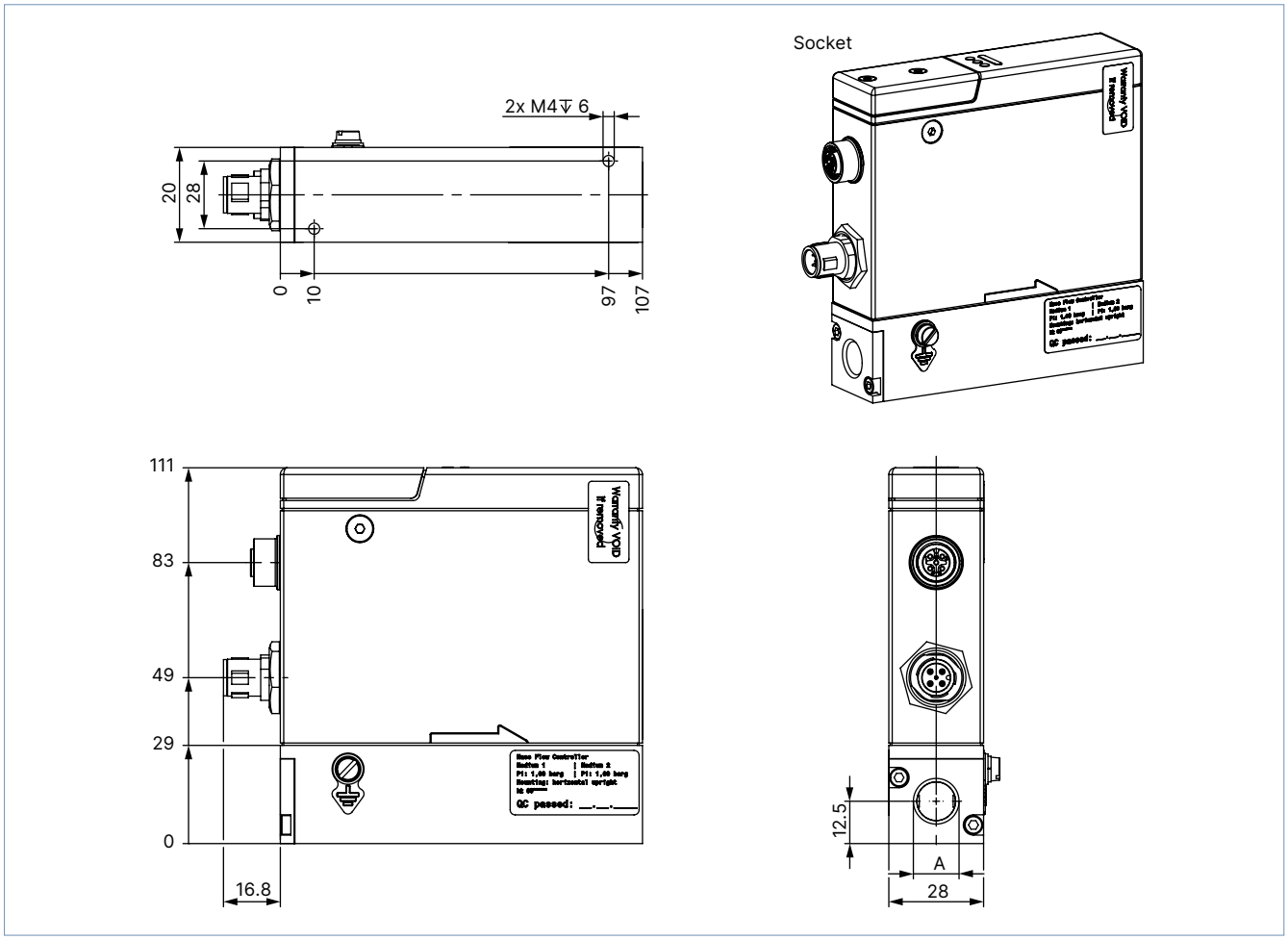
4.3. Variant with analogue interface or PROFIBUS DPV1 interface

Note:
Dimensions in mm



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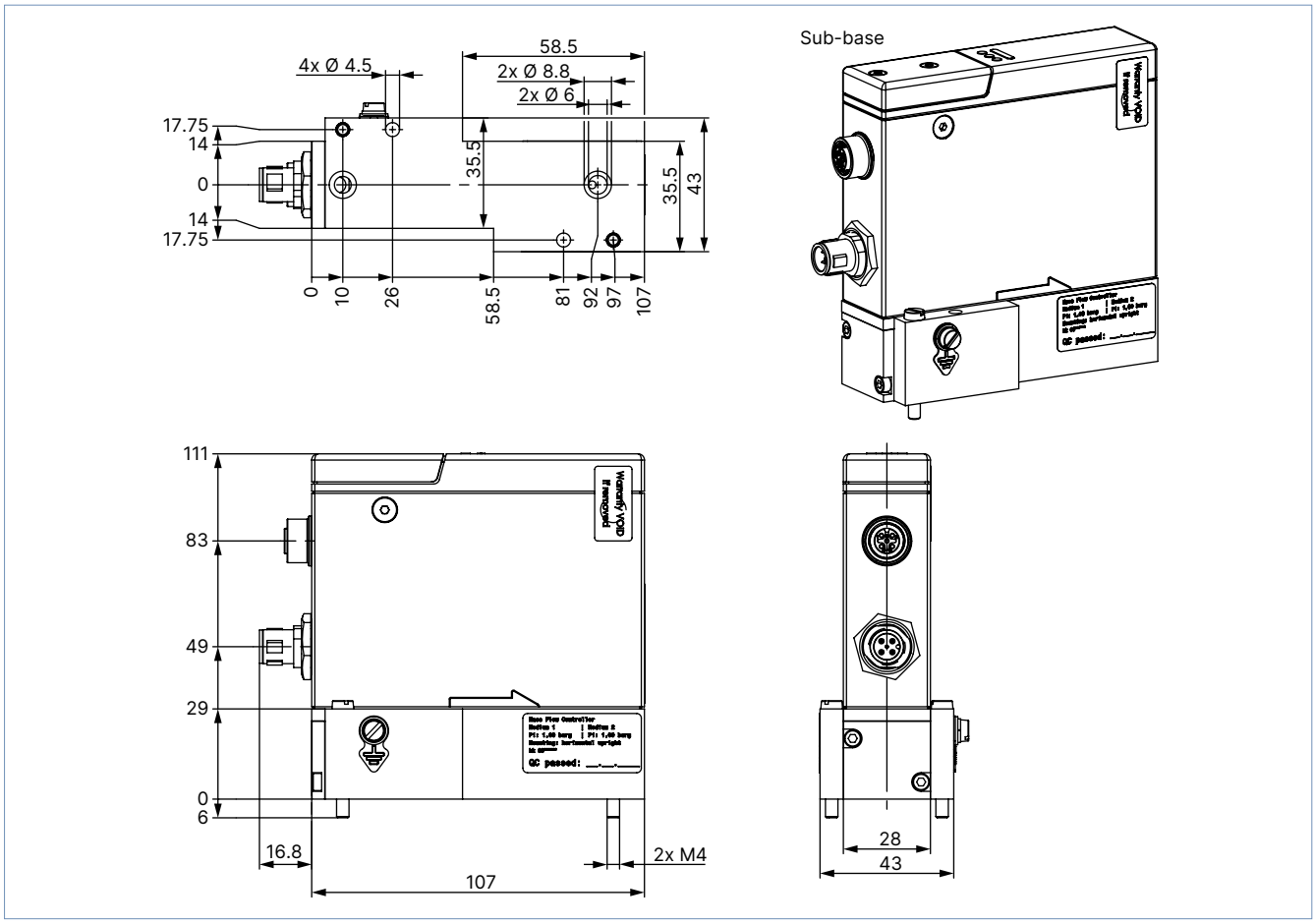
Sub-base variant

Note:
Dimensions in mm



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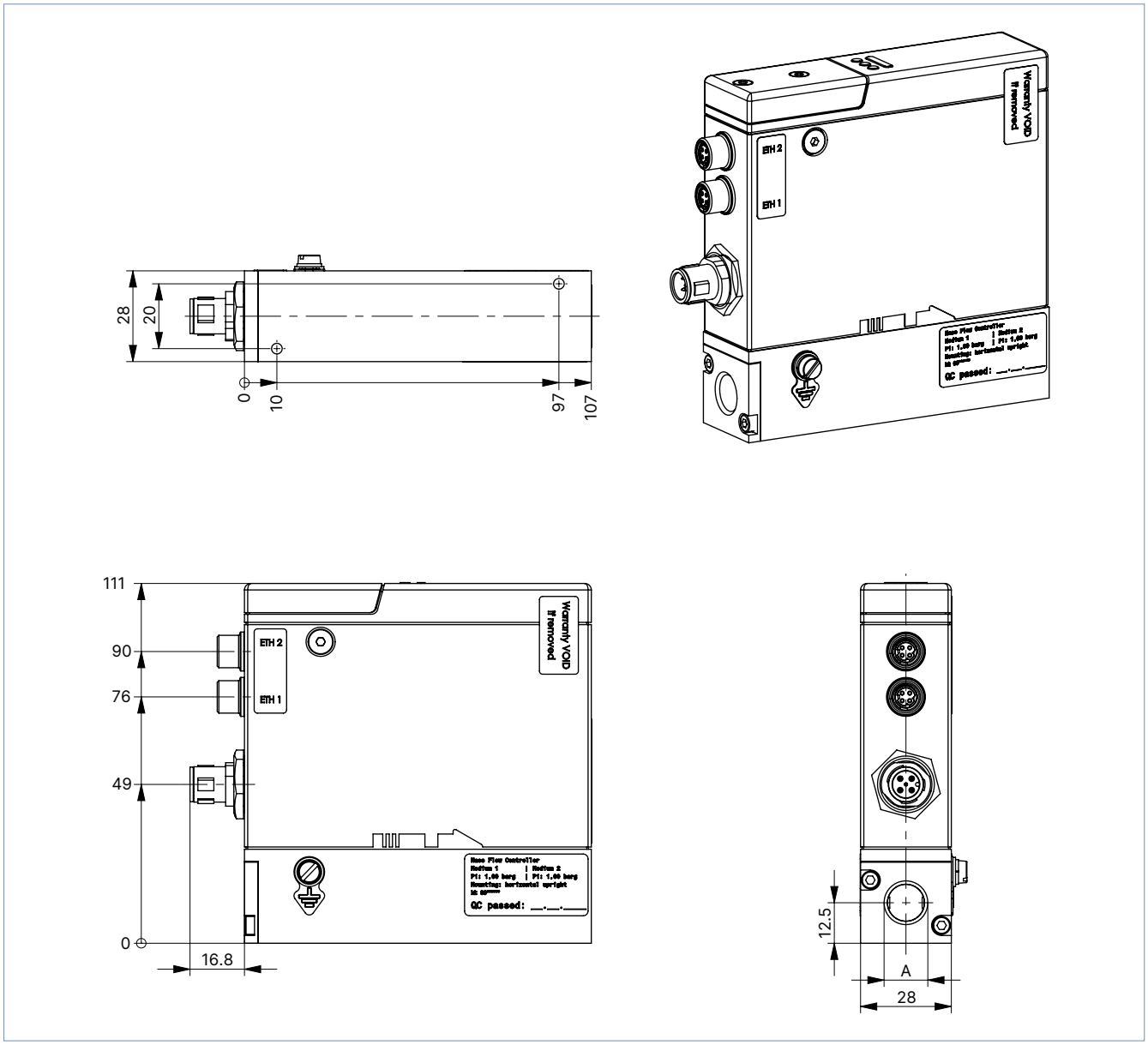
4.4. Variant with Industrial Ethernet interface

Note:
Dimensions in mm



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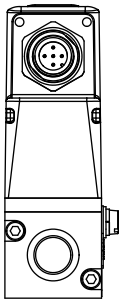
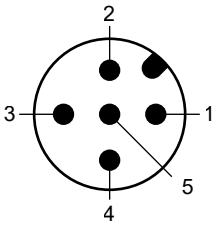
5. Product connections

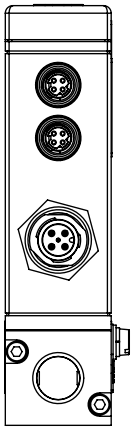
5.1. Communication

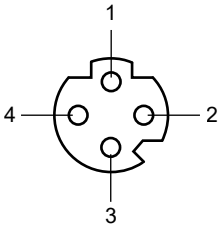
büS/CANopen

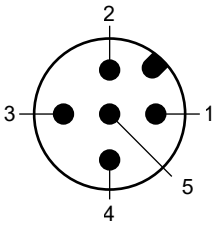


M12 plug, 5-pin (A-coded)	Pin	Assignment
	1	Shielding
	2	24 V
	3	DGND
	4	CAN_H
	5	CAN_L

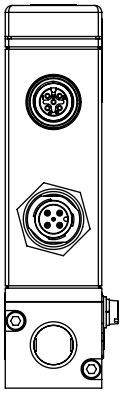
Industrial Ethernet

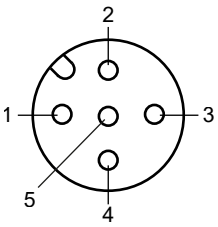


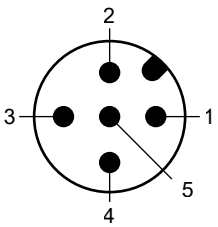
2 x M8 sockets, 4-pin (D-coded)	Pin	Assignment
	1	TX +
	2	RX +
	3	TX –
	4	RX –

M12 plug, 5-pin (A-coded)	Pin	Assignment
	1	Shielding
	2	24 V
	3	GND
	4	Not connected
	5	Not connected

Analogue



M12 socket, 5-pin (A-coded)	Pin	Assignment
	1	Digital input GND
	2	Digital input +
	3	Relay, centre contact
	4	Relay, normally closed contact
	5	Relay, normally open contact

M12 plug, 5-pin (A-coded)	Pin	Assignment
	1	GND for analogue output (for MFM) or GND for analogue output and set-point value input (for MFC)
	2	24 V
	3	GND for supply voltage
	4	Set-point value input (not connected for MFM)
	5	Analogue output for measured value

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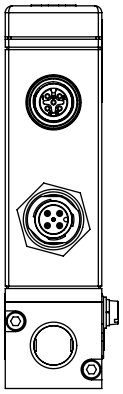
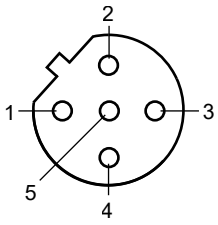
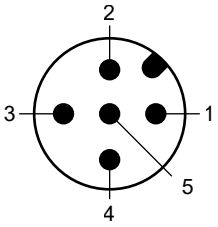
PROFIBUS DPV1



M12 socket, 5-pin (B-coded)	Pin	Assignment
	1	5 V
	2	RxD / TxD (line A)
	3	DGND
	4	RxD / TxD (line B)
	5	Not connected

M12 plug, 5-pin (A-coded)	Pin	Assignment
	1	Shielding
	2	24 V
	3	GND
	4	Not connected
	5	Not connected

6. Product operation

6.1. Measurement principle

Measurements are taken using the differential pressure method. A pressure-drop element in the main channel generates a pressure drop during flow, which is detected by the differential pressure sensor. The differential pressure sensor provides a precise and temperature-compensated measurement signal from which the flow rate is calculated.
Upstream filters are recommended for contaminated media to prevent the pressure-drop element from becoming blocked.

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7. Product accessories

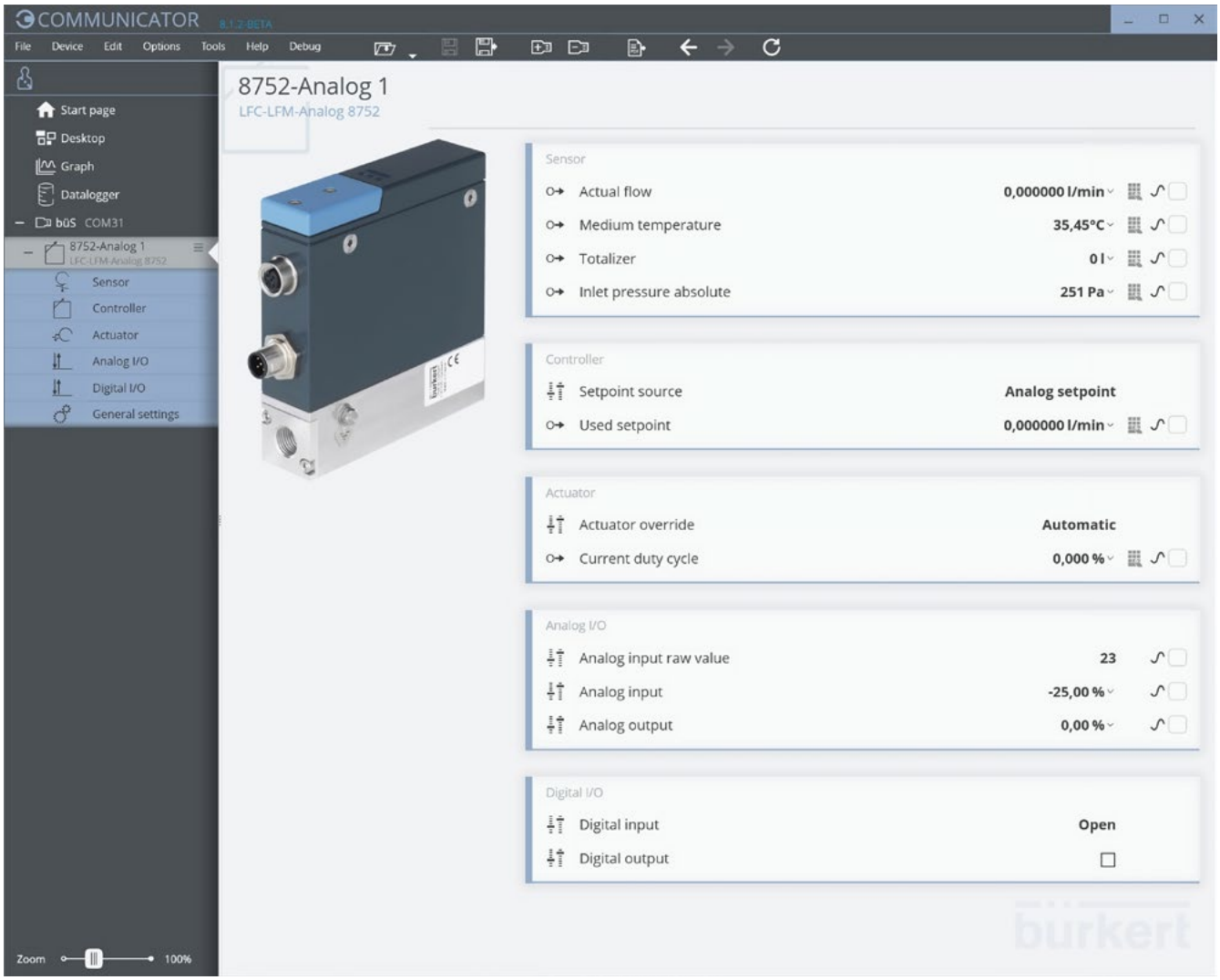
7.1. Bürkert Communicator software

Note:
The corresponding communication software can be downloaded from the website under **Type 8920** ▶.

The Bürkert Communicator is the most important software component of the EDIP (Efficient Device Integration Platform). Various features of this universal tool simplify the configuration and parameterisation 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 diagnostic data. The integrated graphical programming environment enables the creation of decentralised sub-system control functions. The connection to the PC is established with a USB-büS interface set. The set is available as an accessory (see "8.3. Ordering chart accessories" on page 15).

The Bürkert Communicator enables:

- Configuration, parameterisation and diagnostics of EDIP devices / networks
- Easy and comfortable mapping of cyclic values
- Graphic display, monitoring and storage of process values
- Firmware update of the connected EDIP devices
- Saving and restoring device configurations
- Zero-point adjustment in case of changed ambient conditions



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7.2. Connecting Type 8752 with the Bürkert Communicator software

The Bürkert Communicator software interface is based on CANopen. An appropriate bus termination is mandatory. For Type 8752 Analogue and Industrial Ethernet, Therefore, activate the switchable terminating resistor on the büS stick.
Type 8752 Analogue or Industrial Ethernet is connected via the device's micro USB socket (USB-büS interface set 2 contains the necessary accessories).
Note: No external power supply must be connected to the micro USB socket. The device must be provided with power as described in chapter "5. Product connections" on page 11.

7.3. Configuration management for easy device replacement

If a device needs to be replaced, the memory card can be removed from the defective device and can be inserted into the new device. This transfers all data from the device to be replaced to the new device. The memory card is available as an accessory and must be ordered separately (see "8.3. Ordering chart accessories" on page 15).
In order to successfully replace the device, it is necessary that both the new device and the device to be replaced have the same article number.

7.4. Web server for Industrial Ethernet variants

All Industrial Ethernet-based devices (except for the EtherCAT® protocol and PROFIBUS DPV1) have an integrated web server. The server can be accessed via a web browser when entering the device's IP address (factory setting IP192.168.1.100).

8. Ordering information

8.1. Bürkert eShop

Bürkert eShop – Easy ordering and quick delivery

Want to find the Bürkert product or spare part you need 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 – Find the right product quickly

Want to select products conveniently 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 accessories

Description	Article no.
General accessories	
USB-büS interface set 2 (Type 8923) for connection to the Bürkert Communicator software: includes büS stick, connection cable to M12 plug, M12 to micro USB connection cable for the büS service interface and Y-distributor, cable length: 0.7 m	772551
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, 4 A	772363
EPDM seal kit with filter	576459
FKM seal kit with filter	576460
FFKM seal kit with filter	576461
Memory card	On request
Bürkert Communicator software	Download from **Type 8920** ▶
For Type 8752 büS/CANopen	
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-code [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 two separately supplied segments of a büS network	772421
büS terminating resistor, M12 plug, 120 Ω	772424
büS terminating resistor, M12 socket, 120 Ω	772425
LabVIEW device driver	On request
For Type 8752 Industrial Ethernet	
M8 plug, D-coded, to M12 plug, D-coded, cable length: 0.3 m	On request
For Type 8752 Analogue	
M12 plug with cable, individual strands, A-coded, cable length: 5 m	566923
M12 plug with cable, individual strands, A-coded, cable length: 10 m	571393
M12 socket with cable, individual strands, A-coded, cable length: 5 m	560365
M12 socket with cable, shielded, 5-pin, cable length: 10 m	563108
For Type 8746 PROFIBUS DPV1	
M12 socket with cable, individual strands, A-coded, cable length: 5 m	560365
M12 socket with cable, individual strands, A-coded, cable length: 10 m	563108
büS socket, M12, straight, A-coded [1.)]	772416
M12 plug, 5-pin, B-coded, straight	918198
M12 socket 5-pin, straight (coupling)	918447
PROFIBUS DPV1 T-distributor	918531
PROFIBUS DPV1 terminating resistor, M12 plug, B-coded	902553

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 overmoulded cable in this case.

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