



SE56 standard
with display,
Housing in
stainless steel

SE56 basic

SE56 blind

Type SE56 must be combined with...



Type S051

Magnetic sensor fitting
- for low flow



Type S054

Magnetic sensor fitting
- Wafer

Transmitter for electromagnetic-inductive flow sensor fittings

- Must be equipped with sensor fitting S051, S054, S055 or S056
- Continuous measurement or batch control
- High accuracy
- PROFIBUS DP, HART available



Type S055

Magnetic sensor fitting
- Flange



Type S056

Magnetic sensor fitting
- Hygienic

Technical data - Electronics SE56 standard with display



Compatibility	S051, S054, S055, S056 sensor fitting (see separate data sheet 8051, 8054/8055, 8056)
Housing materials	Die casting aluminium or stainless steel 304 electro-polish
Display	Graphic display 8 lines x 16 Characters, 128 x 64 pixels with back light
Keyboard	3 membrane keys
Electrical connection	6 cable glands PG 11



Medium temperature, please see separate data sheets of the complete magflowmeter 8051, 8054/8055, 8056

Environment

Ambient temperature	-20 ... + 60 °C (-4 ... + 140 °F)
Relative humidity	≤ 85 %, without condensation
Height above sea level	-200 ... + 6000 m

Standards, directives and certifications

Protection	Class I, IP67, category of installation II
Standards and directives CE	The applied standards, which verify conformity with the EU Directives, can be found on the EU Type Examination Certificate and/or the EU Declaration of conformity (if applicable)

Technical data - Electronics SE56 standard with display (continued)

Electrical data	
Power supply	90 ... 265 V AC - 44 Hz...66 Hz
Power consumption	max. 25 VA
Cable length	max. 20 m (distance between sensor fitting and electronics)
Input circuit	1 digital, selectable function
Outputs	
Transistor	2 outputs, selectable open collector as pulse/frequency (1250 Hz, 100 mA, 40 V DC) or alarm (adjustable usage)
Current	1 output, 4 ... 20 mA - RL = 1000 Ω (+ a second output)*
Serial interface*	RS-485, RS232, PROFIBUS DP or HART
Velocity range	0.4 ... 10 m/s

* on request.

Electrical data (continued)	
Measurements tolerance	Flow rate (volume) = ± 0.05 % of reading Out 4/20 mA = ± 0.08 % of reading Frequency out = ± 0.08 % of reading
Measurement deviation¹⁾	± 0.2 % of reading
Repeatability	± 0.1 % of reading
Galvanic isolation	All the input/outputs are galvanically isolated from power supply
Data storage	An EEPROM stores the measured values (in case of power failure)
Special functions	Bidirectional measure Dual measurement range Diagnostic function Empty pipe detection Remote configuration (for connection to PC or hand terminal through remote configuration tool kit) Batch function

¹⁾ under reference conditions: water temperature = 20 °C, ambient temperature = 25 °C, constant flow rate during the test, liquid speed > 1 m/s²⁾ = "measurement bias" as defined in the standard JCGM 200:2012**Technical data - Electronics SE56 blind**

General data	
Compatibility	S051, S054, S055, S056 sensor fitting (see separate data sheet 8051, 8054/8055, 8056)
Materials	
Housing	Stainless steel
Cover	PPS
Seal	EPDM
Display	None
Parameterization	Through remote configuration tool kit (accessories Article no. 559 374)
Electrical connection	2 cable glands PG 9



Medium temperature, please see separate data sheets of the complete magflowmeter 8051, 8054/8055, 8056

Electrical data	
Power supply	20 ... 30 V DC
Power consumption	max. 10 W
Input	1 digital, selectable function
Outputs	
Transistor	2 outputs, selectable open collector as pulse/frequency (1250 Hz, 100 mA, 40 V DC) or alarm (adjustable usage)
Current	1 output, 4 ... 20 mA - RL = 800 Ω passive
Serial interface*	RS-485 or PROFIBUS DP

* on request.

Electrical data (continued)

Measurement deviation¹⁾	± 0.2 % of reading
Repeatability	± 0.1 % of reading
Galvanic isolation	All the input/outputs are galvanically isolated from power supply
Data storage	An EEPROM stores the measured values (in case of power failure)
Special functions	Bidirectional measure Diagnostic function Empty pipe detection Remote configuration (for connection to PC or hand terminal) Batch function
Velocity range	0.4 ... 10 m/s

Environment

Ambient temperature	-20 ... + 40 °C (-4 ... + 104 °F)
Relative humidity	≤ 85 %, without condensation
Height above sea level	-200 ... + 6000 m

Standards, directives and certifications

Protection	Class I, IP67, category of installation II
Standards and directives CE	The applied standards, which verify conformity with the EU Directives, can be found on the EU Type Examination Certificate and/or the EU Declaration of conformity (if applicable)

¹⁾ under reference conditions: water temperature = 20 °C, ambient temperature = 25 °C, constant flow rate during the test, liquid speed > 1 m/s²⁾ = "measurement bias" as defined in the standard JCGM 200:2012

Technical data - Electronics SE56 basic



General data

Compatibility	S051, S054, S055, S056 sensor fitting (see corresponding data sheet)
Materials	Housing PA6 with glass fibre
Display	Alphanumeric display 2 lines x 16 Characters, without back light
Parameterization	Through remote configuration tool kit (accessories Article no. 559 374) or 3 keys inside
Electrical connection	3 cable glands PG 11



Medium temperature, please see separate data sheets of the complete magflowmeter 8051, 8054/8055, 8056

Electrical data

Power supply	90 ... 265 V AC or 12 ... 60 V DC
Power consumption	max. 6 W
Input	1 digital, selectable function
Outputs	Transistor 2 outputs, selectable open collector as pulse/frequency (1250 Hz, 100 mA, 40 V DC) or alarm (adjustable usage)
Current	1 output, 4 ... 20 mA - RL = 800 Ω passive
Serial interface*	RS-485

* on request.

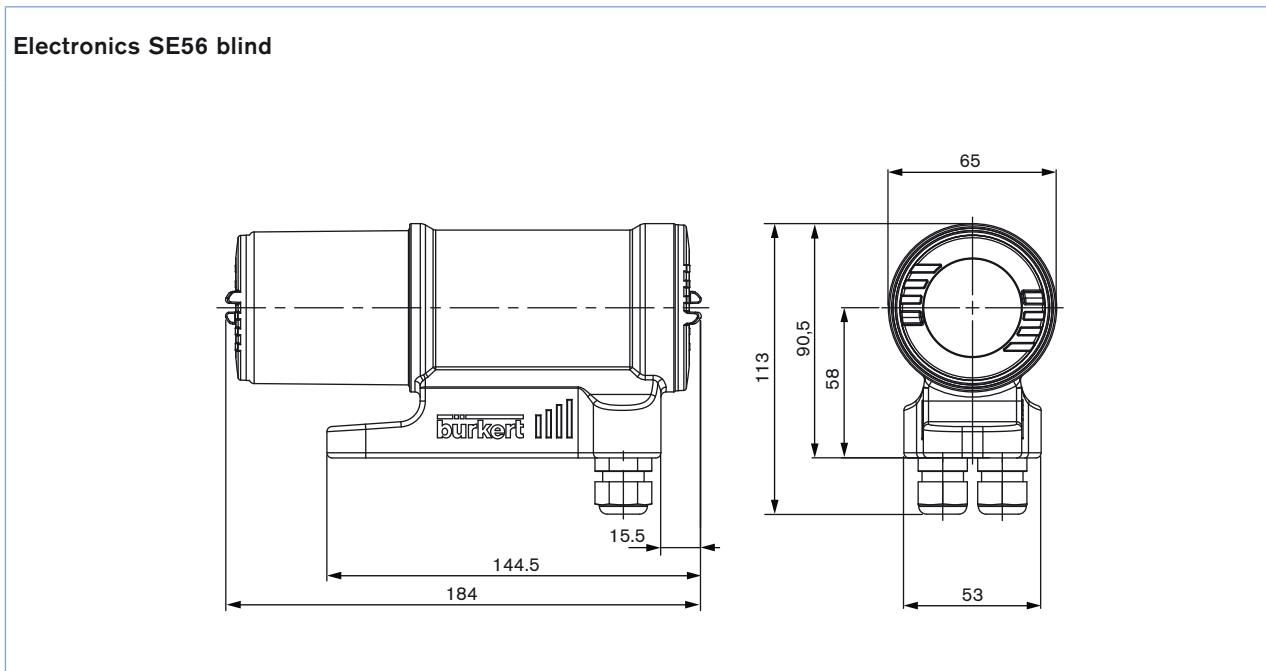
Electrical data (continued)

Measurements tolerance	Flow rate (volume) = ± 0.1 % of reading Out 4/20 mA = ± 0.12 % of reading Frequency out = ± 0.12 % of reading
Measurement deviation¹⁾	± 0.8 % of reading
Repeatability	± 0.2 % of reading
Galvanic isolation	All the input/outputs are galvanically isolated from power supply
Data storage	An EEPROM stores the measured values (in case of power failure)
Special function	Bidirectional measure Diagnostic function Empty pipe detection Plug in (protected plug for connection to PC or hand terminal)
Velocity range	0.4 ... 10 m/s
Environment	
Ambient temperature	Operating - 10 ... + 50 °C (14 ... + 122 °F) Storage - 20 ... + 50 °C (-4 ... + 122 °F)
Relative humidity	≤ 85 %, without condensation
Height above sea level	- 200 ... + 6000 m
Standards, directives and certifications	
Protection	Class I, IP65, category of installation II
Standards and directives CE	The applied standards, which verify conformity with the EU Directives, can be found on the EU Type Examination Certificate and/or the EU Declaration of conformity (if applicable)

¹⁾ under reference conditions: water temperature = 20 °C, ambient temperature = 25 °C, constant flow rate during the test, liquid speed > 1 m/s

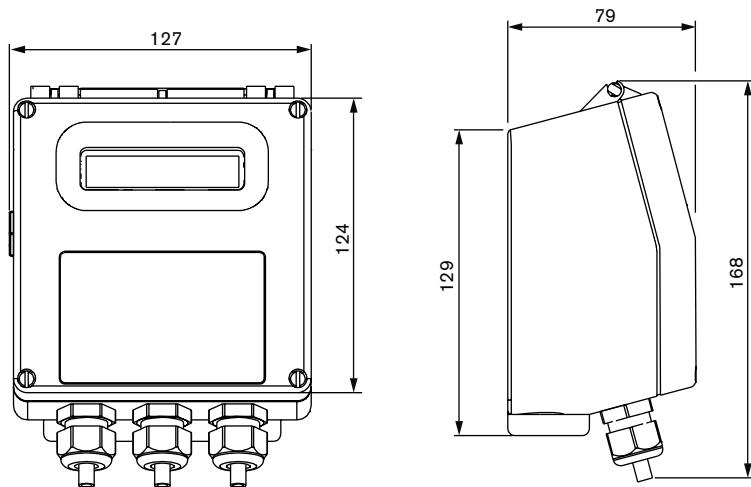
²⁾ = "measurement bias" as defined in the standard JCGM 200:2012

Dimensions [mm]

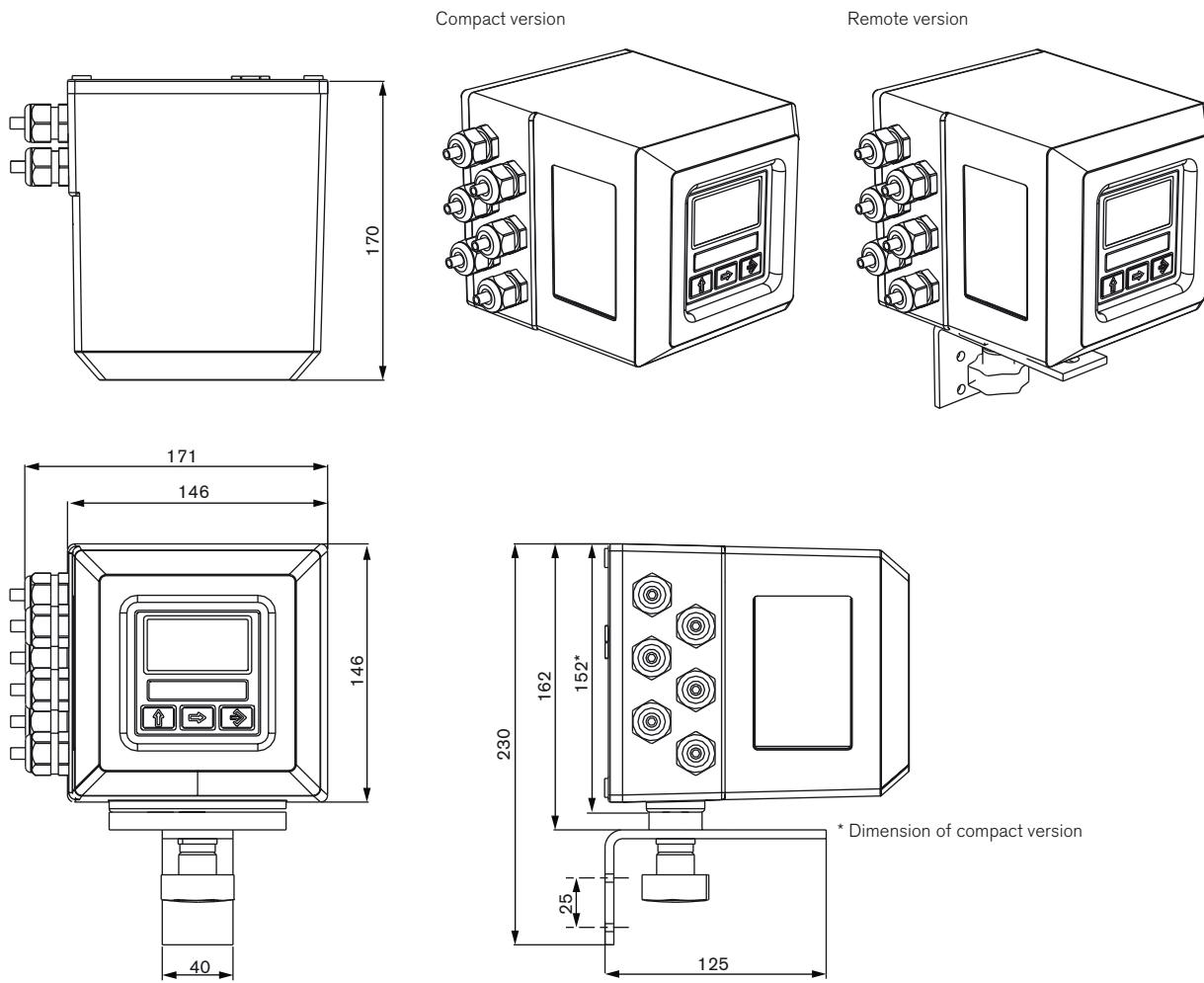


Dimensions [mm]

Electronics SE56 Basic



Electronics SE56 standard with display

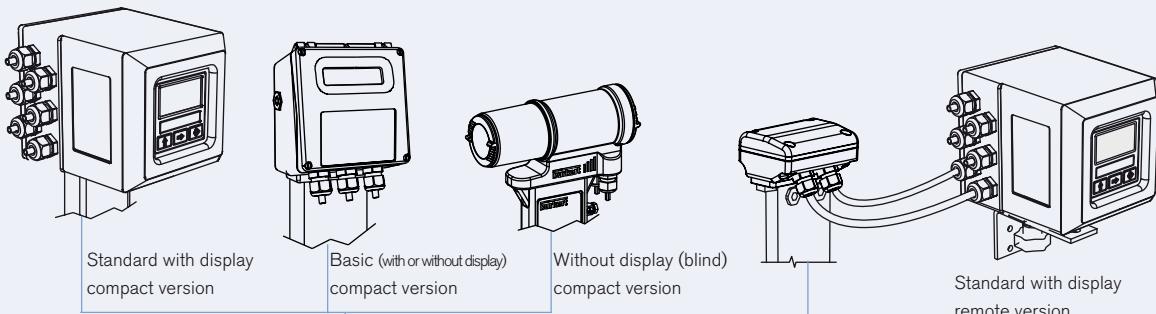


Ordering information for complete full bore magflowmeter Type 8051, 8054/8055 or 8056

A complete full bore magflowmeter consists of a sensor fitting and an electronics SE56.

Examples for variations of complete full bore magflowmeter (electronics + sensor fitting)

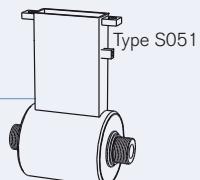
Electronics Type SE56



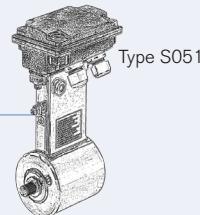
Magflowmeter Type 8051

More info.

For more technical information about this product, click on this box... you will come to our website for this product where you can download the datasheet.



Compact version
sensor fitting

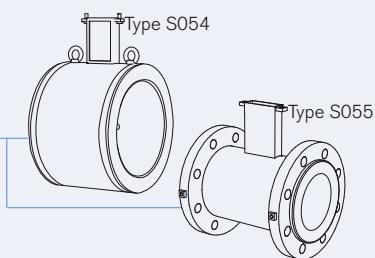


Remote version
sensor fitting

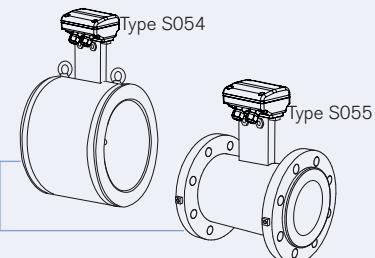
Magflowmeter Type 8054/8055

More info.

For more technical information about this product, click on this box... you will come to our website for this product where you can download the datasheet.



Compact version
sensor fitting

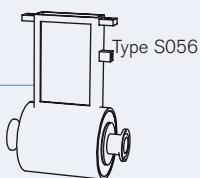


Remote version
sensor fitting

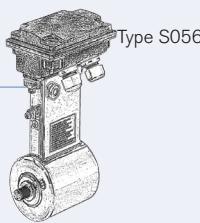
Magflowmeter Type 8056

More info.

For more technical information about this product, click on this box... you will come to our website for this product where you can download the datasheet.



Compact version
sensor fitting



Remote version
sensor fitting

The following information is necessary for the selection of a complete full bore magflowmeter:

- **Item no.** of the sensor fitting **Type S051, Type S054/Type S055 or Type S056** (see separate data sheets of the complete magflowmeter 8051, 8054/8055, 8056)
- **Item no.** of the electronics **Type SE56** (Ordering chart on page 6)

Ordering chart for electronics Type SE56 for magflowmeter

Description	Power supply	Output	Body material	Electrical connection	Article no.
Standard compact version with display	90 ... 265 V AC	2 transistors	Aluminium	6 cable glands	558745
			Stainless steel	6 cable glands	559780
		2 transistors + 4 ... 20 mA	Aluminium	6 cable glands	558747
			Stainless steel	6 cable glands	558306
Standard wall-mounting version with display	90 ... 265 V AC	2 transistors	Aluminium	6 cable glands	559781
			Stainless steel	6 cable glands	558310
		2 transistors + 4 ... 20 mA	Aluminium	6 cable glands	558750
			Stainless steel	6 cable glands	558308
Basic compact version with display	90 ... 265 V AC	2 transistors	Nylon	3 cable glands	562439
		2 transistors + 4 ... 20 mA	Nylon	3 cable glands	562440
	12 ... 60 V DC	2 transistors	Nylon	3 cable glands	562443
		2 transistors + 4 ... 20 mA	Nylon	3 cable glands	562444
Basic compact version without display	90 ... 265 V AC	2 transistors	Nylon	3 cable glands	562441
		2 transistors + 4 ... 20 mA	Nylon	3 cable glands	562442
	12 ... 60 V DC	2 transistors	Nylon	3 cable glands	562445
		2 transistors + 4 ... 20 mA	Nylon	3 cable glands	562446
Blind compact version	20 ... 30 V DC	up to 4 transistors	Stainless steel	2 cable glands	559132
		up to 4 transistors + 4 ... 20 mA	Stainless steel	2 cable glands	559133
		up to 4 transistors + PROFIBUS DP	Stainless steel	2 cable glands	559134

i Further versions on request

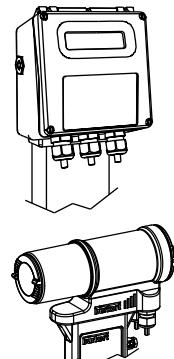
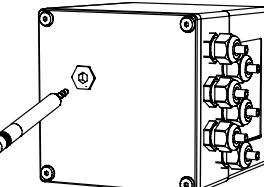
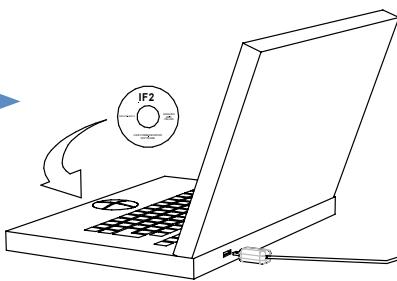
Please also use the "request for quotation" form on page 7 for ordering a customized electronics.

Ordering chart - accessories

Description	Article no.
Remote configuration tool kit	559374

Configuration accessories

Remote configuration tool kit



Electronics Type SE56 for magflowmeter - request for quotation**Note**

You can fill out
the fields directly
in the PDF file
before printing
out the form.

Please fill out and send to your nearest Bürkert facility* with your inquiry or order.

NOTE : Please take into account that the electronics Type SE56 must be associated with a sensor fitting Type S051, S054, S055 or S056.

Company:	Contact person:
Customer No.:	Department:
Address:	Tel. / Fax.:
Postcode / Town:	E-mail:

Electronics SE56 standard with displayQuantity: Desired delivery date: **Mounting version** Compact Wall-mounting Panel-mounting (body only in plastic)**Body material** Aluminium Stainless steel**Power supply** 90 ... 265 V AC 18 ... 63 V DC / 15 ... 45 V AC 10 ... 35 V DC**Outputs** 4 ... 20 mA RS 485 PROFIBUS DP 2 transistors 2 transistors + 4 ... 20 mA 2 transistors (one of them: 10 KHz) 2 transistors + 1 x RS-232 2 transistors + 4 ... 20 mA + 1 x RS-232 HART Protocol 2 Relays 60 V AC 2 Relays 250 V AC**Electronics SE56 blind, compact, in stainless steel, 20 ... 30 V DC**Quantity: Desired delivery date: **Outputs** 4 ... 20 mA RS-485 PROFIBUS DP**Electronics SE56 basic, compact, in plastic**Quantity: Desired delivery date: **Display** With Without**Power supply** 90 ... 265 V AC 12 ... 60 V DC/18 ... 45 V AC**Outputs** 4 ... 20 mA RS-485

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