DATA SHEET

Type SE56





Transmitter for electromagnetic- inductive flow sensors

- Must be equipped with sensor Type S051, S054, S055 or S056
- Continuous measurement or batch control
- High accuracy
- Different housing shapes and materials available
- Compact and remote design selectable







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

Can be combined with



Type S051 Magnetic-inductive flow sensor, low flow rates



Magnetic inductive sensor with intermediate flange for water treatment and general purpose applications



Type S055

Type S054

Magnetic inductive sensor with flange for water treatment and general purpose applications



Type S056

Magnetic inductive sensor with hygienic process connections

Type description

The transmitter Type SE56 (blind in compact version or with display in compact or remote version) connected to the magnetic flow sensor (compact or remote version) Type S051, S054, S055 or S056 is designed for applications with liquids with a minimum conductivity of $5 \,\mu\text{S/cm}$.

The device can be parameterize either with 3 keypads (version with display) or by computer via a serial interface.

As standard, the equipment is supplied with one or two transistor outputs and one digital input. As options, other features are available: such as high frequency output, current output.





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1. General Technical Data

The SE56 transmitter is available in four versions:

Standard compact version with display	Standard remote version with display	Basic compact version with or without display	Compact version without display

It is intended for use with electromagnetic flow sensors Type S051, S054, S055 or S056.

Detailed information can be found in the data sheet of the electromagnetic-inductive flow sensors, see **data sheet Type S051** ▶, **data sheet Type S055** ▶, **data sheet Type S056** ▶.

1.1. Standard compact or remote version with display



Product properties	
Housing material	Die casting aluminium or stainless steel 304 electro-polish
Dimensions	Detailed information can be found in chapter "2. Dimensions" on page 7.
Compatibility	Electromagnetic flow sensors Type S051, S054, S055, S056 in compact or remote version Detailed information can be found in data sheets, see data sheet Type S051 >, data sheet Type S054 >, data sheet Type S055 >, data sheet Type S056 >.
Display	Graphic display 8 lines x16 Characters, 128 x 64 pixels with back light
Keyboard	3 membrane keys
Cable length	For remote version: max. 20 m (distance between sensor and transmitter)
Data-logger	An EEPROM stores the measured values (in case of power failure)
Special function	Bidirectional measure
	Dual measurement range
	Diagnostic functions such as empty pipe detection
	Remote configuration (for connection to PC through remote configuration tool kit)
	Batch and filling functions
Performance data	
Under reference conditions: water tempe speed > 1 m/s	rature = 20 °C, ambient temperature = 25 °C, constant flow rate during the test, liquid
Measurement deviation	±0.2% of reading
Repeatability	±0.1% of reading
Measurement tolerance	• Flow rate (volume) = ±0.05 % of reading
	• Out 4/20 mA = ±0.08 % of reading
18	Frequency out = ±0.08 % of reading
Electrical data	
Operating voltage	90265 V AC, 44 Hz66 Hz
Power consumption	Max. 25 VA
Input	1 digital, function use is configurable
Outputs	 Transistor: 2 outputs, selectable open collector as pulse/frequency (1250 Hz, 100 mA, 40 V DC) or alarm (adjustable usage)
	• Current: 1 output, 420 mA, RL = 1000 W (+ a second output, on request)
	Serial interface (on request): RS-232, RS-485 (Modbus protocol available)
Galvanic isolation	All the input/outputs are galvanically isolated from power supply
Medium data	
Velocity range	0.410 m/s

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Process/Port connection & communic	ation
Electrical connection	6 cable glands PG11
Approvals and certificates	o dable glaride i di i
••	
Standards	
Degree of protection according to IEC/	In standard compact version: IP67
EN 60529	In standard remote version:
	- IP65
	 IP68 (if the junction box of the sensor is filled with resin)
Protection class	Class I
Directives	
CE directives	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).
Environment and installation	
Ambient temperature	-20+60 °C (-4+140 °F) (operation and storage)
Relative air humidity	≤90%, without condensation
Height above sea level	Max. 2000 m
Operating conditions	Continuous
Equipment mobility	Fixed device
Application range	Indoor and outdoor (protect the device against electromagnetic interference, ultraviolet rays and against the effects of climatic conditions)
Installation category	Category II according to UL/EN 61010-1
Pollution degree	Degree 2 according to UL/EN 61010-1

1.2. Basic compact version with or without display



Product properties			
Housing material	PA6 with glass fibre		
Dimensions	Detailed information can be found in chapter "2. Dimensions" on page 7.		
Compatibility	Electromagnetic flow sensors Type S051, S054, S055, S056 in compact version. Detailed information can be found in data sheets, see data sheet Type S051 ▶, data sheet Type S054 ▶, data sheet Type S056 ▶.		
Display	Alphanumeric display 2 lines x 16 Characters, without back light		
Parametrisation	Through remote configuration tool kit (accessories Article no. 559374) or 3 keys inside Detailed information can be found in chapters "3. Product accessories" on page 8 and "5.5. Ordering chart accessories" on page 12.		
Data-logger An EEPROM stores the measured values (in case of power failure)			
Special function	Bidirectional measure		
	Diagnostic functions such as empty pipe detection		
	Plug in (protected plug for connection to PC)		
Performance data			
Under reference conditions: water speed > 1 m/s	temperature = 20 $^{\circ}$ C, ambient temperature = 25 $^{\circ}$ C, constant flow rate during the test, liquid		
Measurement deviation	±0.8% of reading		
Repeatability	±0.2% of reading		
Measurements tolerance	 Flow rate (volume) = ±0.1 % of reading 		
	 Out 4/20 mA = ±0.12 % of reading 		
	 Frequency out = ±0.12 % of reading 		

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Coperating voltage 90265 V AC or 1260 V DC Power consumption Max. 6 W Input 1 digital, function use is configurable Outputs • Transistor: 2 outputs, selectable open collector as pulse/frequency (1250 Hz, 100 mA 40 V DC) or alarm (adjustable usage) • Current: 1 output, 420 mA, RL = 800 W passive • Serial interface (on request): RS-485 (Modbus protocol available) Galvanic isolation All the input/outputs are galvanically isolated from power supply Medium data Velocity range 0.410 m/s Process/Port connection & communication Electrical connection 3 cable glands PG11 Approvals and certificates Standards Degree of protection according to IEC/EN 60529 Protection class Class I Directives 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). Environment and installation Ambient temperature • Operation: -10+50 °C (+14+122 °F) • Storage: -20+50 °C (-4+122 °F) Relative air humidity = 90 %, without condensation Height above sea level Max. 2000 m Operation conditions Continuous Equipment mobility Fixed device Application range Indoor and outdoor (protect the device against electromagnetic interference, ultraviolet rays and against the effects of climatic conditions) Installation category Pollution degree Degree 2 according to UL/EN 61010-1	Electrical data	
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Input 1 digital, function use is configurable Outputs Pransistor: 2 outputs, selectable open collector as pulse/frequency (1250 Hz, 100 mA 40 V DC) or alarm (adjustable usage)		
Outputs		
### AU V DC) or alarm (adjustable usage) ### Current: 1 output, 420 mA, RL = 800 W passive ### Serial interface (on request): RS-485 (Modbus protocol available) ### All the input/outputs are galvanically isolated from power supply ### Medium data ### Velocity range ### O.410 m/s ### Process/Port connection & communication ### Electrical connection & communication & conformity with the EU Directives, can be found on the EU Type Examination Certificate and/or the EU Directives, can be found on the EU Type Examination Certificate and/or the EU Declaration of conformity (if application) #### Electrication & conformity (if application and or the EU Type Examination Certificate and/or the EU Declaration of conformity (if application and or the EU Type Examination Certificate and/or the EU Declaration of conformity (if application and or the EU Type Examination Certificate and/or the EU Declaration of conformity (if application and or the EU Type Examination Certificate and/or the EU Declaration of conformity (if application and or the EU Type Examination Certificate and/or the EU Declaration of conformity (if application and or the EU Type Examination Certificate and/or the EU Declaration of conformity (if application and or the EU Type Examin	<u> </u>	u i
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Medium data Velocity range 0.410 m/s Process/Port connection & communication Electrical connection 3 cable glands PG11 Approvals and certificates Standards Degree of protection according to IEC/ BC 90529 IP65 Protection class Class I Directives CE directives 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) Environment and installation Environment and installation Ambient temperature • Operation: -10+50 °C (+14+122 °F) • Storage: -20+50 °C (-4+122 °F) Relative air humidity ≤ 90 %, without condensation Height above sea level Max. 2000 m Operating conditions Continuous Equipment mobility Fixed device Application range Indoor and outdoor (protect the device against electromagnetic interference, ultraviolet rays and against the effects of climatic conditions) Installation category Category II according to UL/EN 61010-1		Serial interface (on request): RS-485 (Modbus protocol available)
Velocity range 0.410 m/s Process/Port connection & communication Electrical connection 3 cable glands PG11 Approvals and certificates Standards Fear of protection according to IEC/ 8N 60529 Protection class Class I Directives 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). Environment and installation * Operation: -10+50 °C (+14+122 °F) Relative air humidity ≤ 90 %, without condensation Height above sea level Max. 2000 m Operating conditions Continuous Equipment mobility Fixed device Application range Indoor and outdoor (protect the device against electromagnetic interference, ultraviolet rays and against the effects of climatic conditions) Installation category Category II according to UL/EN 61010-1	Galvanic isolation	All the input/outputs are galvanically isolated from power supply
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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). Environment and installation Ambient temperature • Operation: -10+50 °C (+14+122 °F) • Storage: -20+50 °C (-4+122 °F) Relative air humidity ≤90 %, without condensation Height above sea level Max. 2000 m Operating conditions Equipment mobility Fixed device Application range Indoor and outdoor (protect the device against electromagnetic interference, ultraviolet rays and against the effects of climatic conditions) Installation category Category II according to UL/EN 61010-1	Protection class	Class I
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Ambient temperature • Operation: -10+50 °C (+14+122 °F) • Storage: -20+50 °C (-4+122 °F) Relative air humidity ≤90 %, without condensation Height above sea level Max. 2000 m Operating conditions Continuous Equipment mobility Fixed device Application range Indoor and outdoor (protect the device against electromagnetic interference, ultraviolet rays and against the effects of climatic conditions) Installation category Category II according to UL/EN 61010-1	CE directives	the EU Type Examination Certificate and/or the EU Declaration of conformity (if applica-
• Storage: -20+50 °C (-4+122 °F) Relative air humidity ≤90 %, without condensation Height above sea level Max. 2000 m Operating conditions Continuous Equipment mobility Fixed device Application range Indoor and outdoor (protect the device against electromagnetic interference, ultraviolet rays and against the effects of climatic conditions) Installation category Category II according to UL/EN 61010-1	Environment and installation	
Relative air humidity ≤90 %, without condensation Height above sea level Max. 2000 m Operating conditions Continuous Equipment mobility Fixed device Application range Indoor and outdoor (protect the device against electromagnetic interference, ultraviolet rays and against the effects of climatic conditions) Installation category Category II according to UL/EN 61010-1	Ambient temperature	Operation: -10+50 °C (+14+122 °F)
Relative air humidity ≤90 %, without condensation Height above sea level Max. 2000 m Operating conditions Continuous Equipment mobility Fixed device Application range Indoor and outdoor (protect the device against electromagnetic interference, ultraviolet rays and against the effects of climatic conditions) Installation category Category II according to UL/EN 61010-1		• Storage: -20+50 °C (-4+122 °F)
Operating conditions Equipment mobility Fixed device Application range Indoor and outdoor (protect the device against electromagnetic interference, ultraviolet rays and against the effects of climatic conditions) Installation category Category II according to UL/EN 61010-1	Relative air humidity	
Equipment mobility Application range Indoor and outdoor (protect the device against electromagnetic interference, ultraviolet rays and against the effects of climatic conditions) Installation category Category II according to UL/EN 61010-1	Height above sea level	Max. 2000 m
Application range Indoor and outdoor (protect the device against electromagnetic interference, ultraviolet rays and against the effects of climatic conditions) Installation category Category II according to UL/EN 61010-1		Continuous
rays and against the effects of climatic conditions) Installation category Category II according to UL/EN 61010-1	Equipment mobility	Fixed device
	Application range	
Pollution degree Degree 2 according to UL/EN 61010-1	Installation category	Category II according to UL/EN 61010-1
	Pollution degree	Degree 2 according to UL/EN 61010-1

1.3. Compact version without display



Product properties	
Material	
Housing	Stainless steel
Cover	PPS
Seal	EPDM
Dimensions	Detailed information can be found in chapter "2. Dimensions" on page 7.
Compatibility	Electromagnetic flow sensors Type S051, S054, S055, S056 in compact version. Detailed information can be found in data sheets, see data sheet Type S051 ▶, data sheet Type S054 ▶, data sheet Type S056 ▶.
Display	None
Parametrisation	Through remote configuration tool kit (accessories Article no. 559374) Detailed information can be found in chapters "3. Product accessories" on page 8 and "5.5. Ordering chart accessories" on page 12.
Data-logger	An EEPROM stores the measured values (in case of power failure)

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Special function	Bidirectional measure
	Diagnostic functions such as empty pipe detection
	Remote configuration (for connection to PC)
	Batch and filling functions
Performance data	
	erature = 20 °C, ambient temperature = 25 °C, constant flow rate during the test, liquid
speed > 1 m/s	
Measurement deviation	±0.2% of reading
Repeatability	±0.1 % of reading
Electrical data	
Operating voltage	2030 V DC
Power consumption	Max. 10 W
Input	1 digital, function use is configurable
Outputs	 Transistor: 2 outputs, selectable open collector as pulse/frequency (1250 Hz, 100 mA, 40 V DC) or alarm (adjustable usage)
	Current: 1 output, 420 mA, RL = 800 W passive
	Serial interface (on request): RS-485
Galvanic isolation	All the input/outputs are galvanically isolated from power supply
Medium data	
Velocity range	0.410 m/s
Process/Port connection & communic	cation
Electrical connection	2 cable glands PG9
Approvals and certificates	
Standards	
Degree of protection according to IEC/EN 60529	IP65 and IP67
Protection class	Class I
Directives	
CE directives	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).
Environment and installation	
Ambient temperature	-20+40 °C (-4+104 °F) (operation and storage)
Relative air humidity	≤90 %, without condensation
Height above sea level	Max. 2000 m
Operating conditions	Continuous
Equipment mobility	Fixed device
Application range	Indoor and outdoor (protect the device against electromagnetic interference, ultraviolet rays and against the effects of climatic conditions)
Installation category	Category II according to UL/EN 61010-1
Pollution degree	Degree 2 according to UL/EN 61010-1



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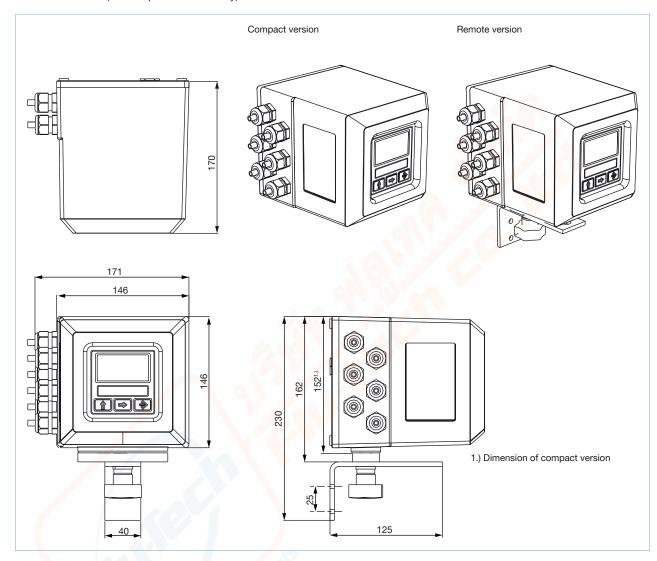


2. Dimensions

2.1. Standard compact or remote version with display

Note:

Dimensions in mm (unless specified differently)





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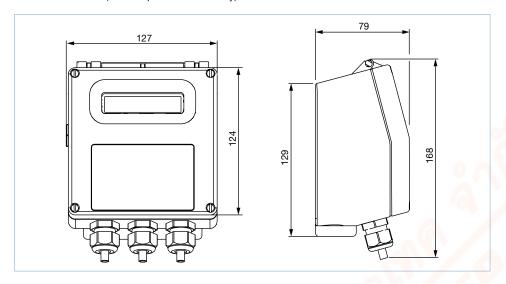
Tel. 0 2384 6060, Fax 0 2384 5701, Email: sales@flutech.co.th, www.flutech.co.th



2.2. Basic compact version with or without display

Note:

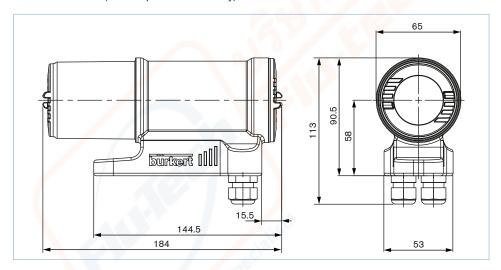
Dimensions in mm (unless specified differently)



2.3. Compact version without display

Note:

Dimensions in mm (unless specified differently)



3. Product accessories

Note:

To configure a device with or without a display, please use the external configuration toll kit.



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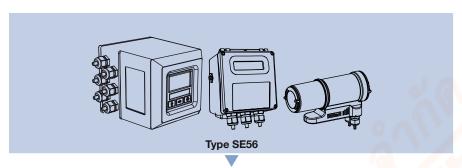
4. Networking and combination with other Bürkert products

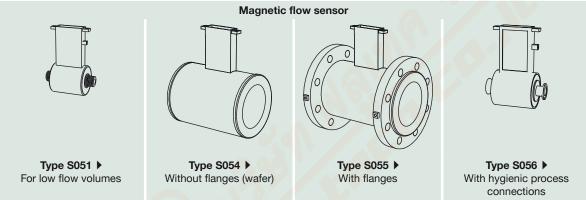
4.1. Compact version

Note:

The compact SE56 transmitter is intended for use with S051, S045, S055 or S056 compact flow sensors.

Example:







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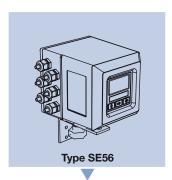


4.2. Remote version

Note:

The remote SE56 transmitter is intended for use with S051, S045, S055 or S056 remote flow sensors.

Example:









5. Ordering information

5.1. Bürkert eShop - Easy ordering and quick delivery



Bürkert eShop - Easy ordering and fast 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

5.2. Recommendation regarding product selection

A complete full bore flowmeter consists of a flow sensor (compact or remote version) Type S051, S054, S055 or S056 and a flow transmitter (compact or remote version) Type SE56.

See Data sheet Type S051 >, Data sheet Type S054 >, Data sheet Type S055 >, Data sheet Type S056 > for more information.

Two different components must be ordered in order to select a complete device. The following information is required:

- Article no. of the sensor Type S051, S054, S055 or S056 (see Data sheet Type S051 ▶, Data sheet Type S054 ▶, Data sheet Type S055 ▶, Data sheet Type S056 ▶ for more information
- Article no. of the transmitter Type SE56 (see following ordering chart)

5.3. 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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5.4. Ordering chart transmitter Type SE56

Operating voltage	Outputs	Housing material	Electrical connection	Article no.	
Standard compact version v	Standard compact version with display				
0265 V AC	2 transistors	Aluminium	6 cable glands	558745 ≒	
		Stainless steel	6 cable glands	559780 ≒	
	2 transistors + 420 mA	Aluminium	6 cable glands	558747 📜	
		Stainless steel	6 cable glands	558306 ≒	
Standard remote version (w	all-mounting) with display				
90265 V AC	2 transistors	Aluminium	6 cable glands	559781 ≒	
		Stainless steel	6 cable glands	558310 ≒	
	2 transistors + 420 mA	Aluminium	6 cable glands	558750 ≒	
		Stainless steel	6 cable glands	558308 ≒	
Basic compact version with	display				
90265 V AC	2 transistors	Nylon	3 cable glands	562439 ≒	
	2 transistors + 420 mA	Nylon	3 cable glands	562440 ≒	
1260 V DC/1845 V AC	2 transistors	Nylon	3 cable glands	562443 ≒	
	2 transistors + 420 mA	Nylon	3 cable glands	562444 ≒	
Basic compact version with	out display				
90265 V AC	2 transistors	Nylon	3 cable glands	562441 ≒	
	2 transistors + 420 mA	Nylon	3 cable glands	562442 ≒	
1260 V DC/1845 V AC	2 transistors	Nylon	3 cable glands	562445 ≒	
	2 transistors + 420 mA	Nylon	3 cable glands	562446 ≒	
Compact version without dis	splay				
2030 V DC	Up to 4 transistors	Stainless steel	2 cable glands	559132 ≒	
	Up to 4 transistors + 420 mA	Stainless steel	2 cable glands	559133 ≒	

Further versions on request				
Additional For standard remote version with display: Panel-mounting version (housing only in plastic)	Voltage • For standard remote version with display: – 1545 V DC/V AC			
- Outputs: 420 mA RS 485 (Modbus protocol available) 2 transistors (one of them: 10 KHz) 2 transistors + 1 x RS-232 2 transistors + 420 mA + 1 x RS-232 HART protocol 2 relays 60 V AC 2 relays 250 V AC	- 1235 V DC			
For Basic compact version with or without display:				
 Outputs: 420 mA RS 485 				
For compact version without display:				
- Outputs: 420 mA RS 485				

5.5. Ordering chart accessories

Description	Article no.
Remote configuration tool kit	559374 📜



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