





Transmitters for electromagnetic inductive flow sensors

- Must be combined with sensor Type S051, Type S054, Type S055 or Type S056
- Continuous measurement, high accuracy
- Different housing shapes and materials available
- Compact and remote design selectable, available with or without display

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



Can be combined with



Type S051 • Electromagnetic flow sensor, low flow rates

▶

▶

▶

Type S054 Electromagnetic flow sensor without flange (intermediate flange variant)

Type S055

Electromagnetic sensor with flange



Type S056 Electromagnetic flow sensor with hygienic process connections

Type description

The Type SE58 transmitter (in S, M or L variant) associated with the electromagnetic flow sensor (in compact or remote variant) Type S051, Type S054, Type S055 or Type S056 is designed for applications with a minimum conductivity of 5 µS/cm.

The variant S of the transmitter Type SE58 can only be used to build a compact flowmeter, with or without display. It is characterised by a housing with small external dimensions.

The variant without display has a housing and a cover in black painted aluminium or stainless steel.

The variant with display has a black painted aluminium or stainless steel housing and a plastic cover. The display is integrated in the cover. Flow rate and totalizer values are displayed simultaneously, as well as symbols for device status and alarms

The flow rate measurement can be transferred via a digital or an analogue output. The achievable uncertainty is 0.5% of the measured value.

The device cannot be extended with the addition of input/output signals and functionalities such as dosing.

The variants M and L of the transmitter Type SE58, are available to build a compact or remote flowmeter, with or without display. Both variants are available with a housing made of painted aluminium, plastic or stainless steel.

The device can be extended with the addition of input/output signals and functionalities such as dosing (only Type SE58 L) and data logger. The Human Machine Interface (HMI) comprising the display and the operating keys allows choosing flexible data presentations, carrying out complete settings and configuring the device. The L variant is characterized by superior performance as shown by the low uncertainty of 0.2 % of the measured value compared to 0.4 % (option) and 0.8 % with the M variant.

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1. General technical data

1.1. About the device

The transmitter Type SE58 is available in 3 variants:

- SE58 L available with an aluminium, plastic or stainless steel housing and cable glands, with or without display, compact or remote design
- SE58 M available with an aluminium, plastic or stainless steel housing and cable glands, with or without display, compact or remote design
- SE58 S available with an aluminium or stainless steel housing, M12 connector or one cable gland with connected cable and with or without display, no remote variant



Settings for SE58 L and SE58 M can be done using the operator keys or by USB cable and PC tool MCP. However, any changes using MCP are not recommended, unless they are:

- done after receiving corresponding training by Burkert,
- carried out by a professional,
- agreed by the end user, and
- done in accordance with the MCP manual.

All transmitters are intended for use with electromagnetic flow sensors Type S051, Type S054, Type S055 or Type S056.

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

1.2. SE58 L transmitter



Product properties

Floduct properties	
Material	
Lid	Polycarbonate (PC)
Front panel film	Polyester
Deckel	Painted aluminium die casting or
	Nylon reinforced (PA6) with 15 % glass fibre or
	Stainless steel 304 (1.4301), electro-polished
Housing	Painted aluminium die casting or
	 Nylon reinforced (PA6) with 15 % of glass fibre or
	Stainless steel 304 (1.4301) electro-polished
Seal	Silicone
Cable gland	Polyamide (PA)
Display	Graphic display 8 lines x 16 characters, 128 × 64 pixels with back light
Keypad	3 operating keys
Compatibility	Electromagnetic flow sensors Type S051, Type S054, Type S055 or Type S056 in compact or remote
	variant
	Further information can be found in the data sheets, see data sheet Type S051 , data sheet
	Type S054 ▶, data sheet Type S055 ▶ or data sheet Type S056 ▶.
Dimensions	Further information can be found in chapter "3. Dimensions" on page 10.



Bidirectional measure Dual measurement range Diagnostic functions such as device self tests and process diagnostics like empty-pipe ¹³ or measurement value limit detection Batch filling functions to internal test procedures: quid speed > 1 m/s putlet conditions ether with sensor Type S051, Type S054, Type S055 or Type S056. Further information can be found on" on page 15. 0.2 % of the measured value for flow velocity > 0.5 m/s ther information can be found in chapter "4.1. Measurement deviation diagram" on page 14. 0.1 % of the measured value for flow velocity > 0.5 m/s timum time for analogue output (AO), when damping setting is deactivated and according to sensor size: - DN 03DN 250: 20 ms - DN 300DN 400: 100 ms for digital output (DO): - 100 ms (if used with the sensor Type S054 or Type S055) Dome (if used with the sensor Type S054 or Type S055)						
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For analogue output (AO), when damping setting is deactivated and according to sensor size: - DN 03DN 250: 20 ms - DN 300DN 400: 100 ms For digital output (DO): - 100 ms (if used with the sensor Type S054 or Type S055)						
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- DN 300DN 400: 100 ms for digital output (DO): - 100 ms (if used with the sensor Type S054 or Type S055)						
or digital output (DO): - 100 ms (if used with the sensor Type S054 or Type S055)						
- 100 ms (if used with the sensor Type S054 or Type S055)						
20 mm (if we doubt the second Time $20051 mm$ Time 2050)						
- 20 ms (if used with the sensor Type S051 or Type S056)						
S S S S S S						
100240 V AC, 44 Hz66 Hz						
1248 V DC						
Others on request						
x. 20 VA with 100240 V AC operating voltage						
gital, function use is configurable (e.g. totalizer reset)						
Transistor:						
 NPN or PNP (according to wiring), open collector 						
- NPN output: 2 digital outputs (DO)						
 PNP output: only 1 digital output (DO) 						
- configurable as						
 pulse/frequency (1250 Hz, max. 100 mA, 30 V DC) or 						
 alarm/batch (adjustable usage) 						
Current:						
- max. 2 analogue outputs (AO), 0/420/22 mA, RL = 1000 Ω						
HART (optional) only over first analogue output						
Serial interface (optional): RS-485 (available with Modbus protocol (option))						
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ween sensor and transmitter:						
cable C015/C016 for remote variant						
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$\sim \sim $						
10 m/s						
S/cm						
oron						
5 cable glands PG11 for aluminium or nylon housing or						
6 cable glands PG11 for stainless steel housing						

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Plug for configuration connection	USB port for the connection to PC (USB cable with USB mini B and USB type A connectors is required for the configuration and parameter settings)						
Industrial communication							
Supported network protocol	Modbus RTU via RS-485						
	HART (available on first analogue output)						
Approvals and conformities							
Directives							
CE directive	Further information on the CE directive can be found in chapter "2.2. Standards" on page 9.						
Environment and installation							
Ambient temperature	Operation and storage						
	 Aluminium or stainless steel housing: - 20+ 60 °C (- 4+ 140 °F) 						
	Reinforced nylon housing: -10+ 50 °C (+14+122 °F)						
Relative air humidity	0100%, without condensation						
Height above sea level	- 200+ 4000 m						
Operating condition	Continuous						
Equipment mobility	Fixed device						
Application range	Indoor and outdoor						
	Protect the device against electromagnetic interference, ultraviolet rays and, when installed outdoors						
	against the effects of climatic conditions.						
Degree of protection according to IEC/EN 60529	Aluminium housing: IP65, IP67 (IP68 option)						
	Reinforced nylon housing: IP65, IP67						
	Stainless steel housing: IP65						
Installation category	Category II according to UL/EN 61010-1						
Pollution degree	Degree 2 according to UL/EN 61010-1						

1.) Empty pipe functionality is not available if sensors are selected in the range of DN 03 to DN 20.



1.3. SE58 M transmitter



Product properties							
Material							
Lid	Polyamide (PA)						
Front panel film	Polyester						
Cover	Painted aluminium die casting or						
	Nylon reinforced (PA6) with 15 % glass fibre or						
	Stainless steel 304 (1.4301), electro-polished						
Housing	Painted aluminium die casting or						
5	Nylon reinforced (PA6) with 15 % glass fibre or						
	Stainless steel 304 (1.4301), electro-polished						
Seal	Silicone						
Cable gland	Polyamide (PA)						
Display	Graphic display 8 lines x16 characters, 128 × 64 pixels with back light						
Keypad	3 operator keys						
Compatibility	Electromagnetic flow sensors Type S051, Type S054, Type S055 or Type S056 in compact or remote						
	variant						
	Further information can be found in the data sheets, see data sheet Type S051 ▶, data sheet Type S054 ▶, data sheet Type S055 ▶ or data sheet Type S056 ▶.						
Dimensions	Further information can be found in chapter "3. Dimensions" on page 10.						
Data logger	A micro SD memory card 4 GB stores the selected data in a specified interval (option)						
Special function	Bidirectional measure						
	Dual measurement range						
	 Diagnostic functions such as device self tests and process diagnostics like empty-pipe¹⁾ or measurement value limit detection 						
Performance data							
At reference conditions and	according to internal test procedures:						
At room temperature							
Constant flow rate durin	g the test, liquid speed >1 m/s						
 Pressure: > 30 Kpa 							
• Flow condition: observed	d inlet and outlet conditions						
• Zero point stability: ± 0.0	005 %						
	ordered together with sensor Type S051, Type S054, Type S055 or Type S056. Further information can be found configuration" on page 15.						
Measurement deviation	\leq ± 0.8 % of the measured value (optional: ± 0.4 % of the measured value) for flow velocity > 0.5 m/s Further information can be found in chapter "4.1. Measurement deviation diagram" on page 14.						
Repeatability	$\leq \pm 0.4$ % of the measured value (optional: ± 0.2 % of the measured value) for flow velocity > 0.5 m/s						
Response time	Minimum time						
	• for analogue output (AO), when damping setting is deactivated and according to sensor size:						
	– DN 03DN 250: 20 ms						

Electrical data Operating voltage

Input

Power consumption

100 ms (if used with the sensor Type S054 or Type S055)20 ms (if used with the sensor Type S051 or Type S056)

DN 300...DN 400: 100 msfor digital output (DO):

• 100...240 V AC, 44 Hz...66 Hz

Max. 20 VA with 100...240 V AC operating voltage 1 digital, function use is configurable (e.g. totalizer reset)

12...48 V DCOthers on request



Output • Transistor: • NPN or PNP (according to wiring), open collector • NPN output: 2 digital outputs (DO) • PNP output: only 1 digital output (DO) • configurable as • pulse/frequency (1250 Hz, max. 100 mA, 30 V DC) or • alarm • Current: • max. 2 analogue outputs (AO), 0/420/22 mA, RL = 1000 Ω • HART (optional) only over first analogue output • Serial Interface (optional): RS-485 (available with Modbus protocol (option)) Galvanic isolation All the input/outputs are galvanically isolated up to 250 V from operating voltage Protection class Class I Connection cable Between sensor and transmitter: • cable C015/C016 for remote variant 10 m (other lengths on request) Further information can be found in the data sheets, see data sheet Type S051 ▶, data sheet Type S055 ▶, data sheet Type S056 ▶. Medium data Velocity range 0.410 m/s Velocity range 0.410 m/s Minimum conductivity 5 suble glands PG11 for aluminium or nylon housing or • 6 cable glands PG11 for stainless steel housing USB port for the connection to PC (USB cable with USB mini B and USB type A connectors is for the configuration and parameter settings) Industrial communication • Modbus RT	
- NPN output: 2 digital outputs (DO) - PNP output: only 1 digital output (DO) - Configurable as - pulse/[requency (1250 Hz, max. 100 mA, 30 V DC) or - alarm - Current: - max. 2 analogue outputs (AO), 0/420/22 mA, RL = 1000 Ω - HART (optional) only over first analogue output - Serial interface (optional): RS-485 (available with Modbus protocol (option)) Galvanic isolation All the input/outputs are galvanically isolated up to 250 V from operating voltage Protection class Class I Connection cable Between sensor and transmitter: - cable C015/C016 for remote variant - 10 m (other lengths on request) Further information can be found in the data sheets, see data sheet Type S051 >, data sheet Velocity range 0.410 m/s Minimum conductivity 5 µS port for the connection to PC (USB cable with USB mini B and USB type A connectors is for the configuration and parameter settings) Plug for configuration connection S South Quata Sheet Type S051 + class steel housing Plug for configuration connection S South configuration and parameter settings) Industrial communication S South galands PG11 for aluminium or nylon housing or configuration connection to PC (USB cable with USB mini B and USB type A connectors is for the configuration and paramet	
- PNP output: only 1 digital output (DO) - configurable as - pulse/frequency (1250 Hz, max. 100 mA, 30 V DC) or - alarm - Current: - max. 2 analogue outputs (AO), 0/420/22 mA, RL = 1000 Ω - HART (optional) only over first analogue output - HART (optional) only over first analogue output - Serial interface (optional): RS-485 (available with Modbus protocol (option)) Galvanic isolation All the input/outputs are galvanically isolated up to 250 V from operating voltage Protection class Class I Connection cable Between sensor and transmitter: - cable C015/C016 for remote variant 10 m (other lengths on request) Further information can be found in the data sheet Type S056 J. data sheet Type S056 J. Minimum conductivity 5 µ5/cm Connections & communication 5 scable glands PG11 for aluminium or nylon housing or - 6 cable glands PG11 for stainless steel housing 1 Plus for configuration connection S cable glands PG11 for stainless steel housing Plus for configuration - Modbus RTU via RS-485 - HART (available on first analogue output) Approvals and conformites Lectrical connection - Modbus RTU via RS-485 - HART (available on fi	
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- pulse/frequency (1250 Hz, max. 100 mA, 30 V DC) or - alarm - Current: - max. 2 analogue outputs (AO), 0/420/22 mA, RL = 1000 Ω - HART (optional) only over first analogue output Serial interface (optional): RS-485 (available with Modbus protocol (option)) Galvanic isolation All the input/outputs are galvanically isolated up to 250 V from operating voltage Protection class Class I Connection cable Between sensor and transmitter: - cable C015/C016 for remote variant - i 0 m (other lengths on request) Further information can be found in the data sheets, see data sheet Type S056 J. Velocity range 0.410 m/s Minimum conductivity 5 µS/cm Connections & communication - 5 cable glands PG11 for aluminium or nylon housing or - 6 cable glands PG11 for stainless steel housing Plug for configuration connection S Cable sport for the connection to PC (USB cable with USB mini B and USB type A connectors is for the configuration and parameter settings) Industrial communication - Modbus RTU via RS-485 - HART (available on first analogue output) Approvals and conformities - Modbus RTU via RS-485 - HART (available on first analogue output) Aprovals and conformities - Further information on the C	
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- HART (optional) only over first analogue output · Serial interface (optional): RS-485 (available with Modbus protocol (option)) Galvanic isolation All the input/outputs are galvanically isolated up to 250 V from operating voltage Protection class Class I Connection cable Between sensor and transmitter: - cable C015/C016 for remote variant - 10 m (other lengths on request) Further information can be found in the data sheets, see data sheet Type S051 >, data sheet Type S054 >, data sheet Type S056 >. Medium data - Velocity range 0.410 m/s Minimum conductivity 5 µS/cm Connections & communication - Electrical connection - 5 cable glands PG11 for aluminium or nylon housing or - 6 cable glands PG11 for stainless steel housing Plug for configuration connection USB port for the connection to PC (USB cable with USB mini B and USB type A connectors is for the configuration and parameter settings) Industrial communication - Modbus RTU via RS-485 - HART (available on first analogue output) Approvals and conformities - Directives - Claitective Further information on the CE directive can be found in chapter "2.2. Standards" on page 9. Environment and installation -	
 Serial interface (optional): RS-485 (available with Modbus protocol (option)) Galvanic isolation All the input/outputs are galvanically isolated up to 250 V from operating voltage Protection class Class I Connection cable Between sensor and transmitter: cable C015/C016 for remote variant 10 m (other lengths on request) Further information can be found in the data sheets, see data sheet Type S051 >, data sheet Medium data Velocity range 0.410 m/s Minimum conductivity 5 µS/cm Connections & communication Electrical connection 5 cable glands PG11 for aluminium or nylon housing or 6 cable glands PG11 for stainless steel housing Plug for configuration connection USB port for the connection to PC (USB cable with USB mini B and USB type A connectors is for the configuration and parameter settings) Industrial communication Supported network protocol Modbus RTU via RS-485 HART (available on first analogue output) Approvals and conformities Directives Cet directive Further information on the CE directive can be found in chapter "2.2. Standards" on page 9. 	
Galvanic isolation All the input/outputs are galvanically isolated up to 250 V from operating voltage Protection class Class I Connection cable Between sensor and transmitter: cable C015/C016 for remote variant 10 m (other lengths on request) Further information can be found in the data sheet Type S056). Medium data Velocity range 0.410 m/s Velocity range 0.410 m/s Minimum conductivity 5 µS/cm Connections & communication • 5 cable glands PG11 for aluminium or nylon housing or 6 cable glands PG11 for stainless steel housing Plug for configuration connection • 5 cable glands PG11 for stainless steel housing Plug for configuration connection • 5 cable glands PG11 for stainless steel housing Supported network protocol • Modbus RTU via RS-485 • HART (available on first analogue output) Approvals and conformities • Modbus RTU via RS-485 • HART (available on first analogue output) Directives Further information on the CE directive can be found in chapter "2.2. Standards" on page 9. Environment and installation Further information on the CE directive can be found in chapter "2.2. Standards" on page 9.	
Protection class Class I Connection cable Between sensor and transmitter: <utbody> cable C015/C016 for remote variant 10 m (other lengths on request) Further information can be found in the data sheets, see data sheet Type S051 >, data sheet Type S054 >, data sheet Type S055 >, data sheet Type S056 >. Medium data Velocity range 0.410 m/s Minimum conductivity 5 µS/cm Connections & communication Electrical connection 5 cable glands PG11 for aluminium or nylon housing or 6 cable glands PG11 for stainless steel housing Plug for configuration connection USB port for the connection to PC (USB cable with USB mini B and USB type A connectors is for the configuration and parameter settings) Industrial communication Supported network protocol Modbus RTU via RS-485 HART (available on first analogue output) Approvals and conformities Directives CE directive Further information on the CE directive can be found in chapter "2.2. Standards" on page 9.</utbody>	
Connection cable Between sensor and transmitter: • cable C015/C016 for remote variant • 10 m (other lengths on request) Further information can be found in the data sheet Type S056 >. Medium data Velocity range 0.410 m/s Minimum conductivity 5 µS/cm Connections & communication 5 cable glands PG11 for aluminium or nylon housing or • 6 cable glands PG11 for stainless steel housing VISB port for the connection to PC (USB cable with USB mini B and USB type A connectors is for the configuration and parameter settings) Industrial communication • Modbus RTU via RS-485 Supported network protocol • Modbus RTU via RS-485 • HART (available on first analogue output) Approvals and conformities Directives Further information on the CE directive can be found in chapter "2.2. Standards" on page 9.	
 cable C015/C016 for remote variant 10 m (other lengths on request) Further information can be found in the data sheet Type S055 >, data sheet Type S056 >. Medium data Velocity range 0.410 m/s JS/cm Connections & communication 5 cable glands PG11 for aluminium or nylon housing or 6 cable glands PG11 for stainless steel housing Plug for configuration connection USB port for the connection to PC (USB cable with USB mini B and USB type A connectors is for the configuration and parameter settings) Industrial communication Modbus RTU via RS-485 HART (available on first analogue output) Approvals and conformities Further information on the CE directive can be found in chapter "2.2. Standards" on page 9.	<u></u>
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Minimum conductivity 5 μS/cm Connections & communication • Electrical connection • 5 cable glands PG11 for aluminium or nylon housing or • • 6 cable glands PG11 for stainless steel housing Plug for configuration connection USB port for the connection to PC (USB cable with USB mini B and USB type A connectors is for the configuration and parameter settings) Industrial communication • Modbus RTU via RS-485 • HART (available on first analogue output) Approvals and conformities • Modbus RTU via RS-485 • HART (available on first analogue output) Directives Ce directive Further information on the CE directive can be found in chapter "2.2. Standards" on page 9. Environment and installation • Further information on the CE directive can be found in chapter "2.2. Standards" on page 9.	
Connections & communication • 5 cable glands PG11 for aluminium or nylon housing or • 6 cable glands PG11 for stainless steel housing Plug for configuration connection USB port for the connection to PC (USB cable with USB mini B and USB type A connectors is for the configuration and parameter settings) Industrial communication • Modbus RTU via RS-485 • HART (available on first analogue output) Approvals and conformities • Further information on the CE directive can be found in chapter "2.2. Standards" on page 9. Environment and installation • Further information on the CE directive can be found in chapter "2.2. Standards" on page 9.	
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Plug for configuration connection USB port for the connection to PC (USB cable with USB mini B and USB type A connectors is for the configuration and parameter settings) Industrial communication Supported network protocol Supported network protocol • Modbus RTU via RS-485 • HART (available on first analogue output) Approvals and conformities Directives CE directive Further information on the CE directive can be found in chapter "2.2. Standards" on page 9. Environment and installation	
for the configuration and parameter settings) Industrial communication Supported network protocol • Modbus RTU via RS-485 • HART (available on first analogue output) Approvals and conformities Directives CE directive Further information on the CE directive can be found in chapter "2.2. Standards" on page 9. Environment and installation	
Supported network protocol • Modbus RTU via RS-485 • HART (available on first analogue output) Approvals and conformities Directives CE directive Further information on the CE directive can be found in chapter "2.2. Standards" on page 9. Environment and installation	required
HART (available on first analogue output) Approvals and conformities Directives CE directive Further information on the CE directive can be found in chapter "2.2. Standards" on page 9. Environment and installation	
Approvals and conformities Directives CE directive Further information on the CE directive can be found in chapter "2.2. Standards" on page 9. Environment and installation	
Approvals and conformities Directives CE directive Further information on the CE directive can be found in chapter "2.2. Standards" on page 9. Environment and installation	
CE directive Further information on the CE directive can be found in chapter "2.2. Standards" on page 9. Environment and installation	
Environment and installation	
Ambient temperature Operation and storage	
 Aluminium or stainless steel housing: - 20+ 60 °C (- 4+ 140 °F) 	
 Reinforced nylon: -10+ 50 °C (+14+ 122 °F) 	
Relative air humidity 0100 %, without condensation	
Height above sea level - 200+ 4000 m	
Operating condition Continuous	
Equipment mobility Fixed device	
Application range Indoor and outdoor	
Protect the device against electromagnetic interference, ultraviolet rays and, when installed of against the effects of climatic conditions.	outdoors,
Degree of protection according • Aluminium housing: IP65, IP67 (IP68 optional)	
to IEC/EN 60529 • Reinforced nylon housing: IP65, IP67	
Stainless steel housing: IP65	
Installation category Category II according to UL/EN 61010-1	
Pollution degree Degree 2 according to UL/EN 61010-1	

1.) Empty pipe functionality is not available if sensors are selected in the range of DN 03 to DN 20.



1.4. SE58 S transmitter



Product properties									
Material									
Lid	Polyamide (PA)								
Cover	PA6								
Housing	Painted Aluminium die casting or								
	Stainless steel AISI 304 (1.4301) raw or polished								
Seal	NBR								
Fixed connector	Nickel-plated brass								
Cable gland	Polyamide (PA)								
Display	LCD dimensions 60 × 40 mm, 2 lines + symbols, icons								
Keypad	None								
Compatibility	Electromagnetic flow sensors Type S051, Type S054, Type S055, Type S056 in compact variant, up to DN 400.								
	Further information can be found in the data sheets, see data sheet Type S051 ▶, data sheet Type S054 ▶, data sheet Type S055 ▶, data sheet Type S056 ▶.								
Dimensions	Further information can be found in chapter "3. Dimensions" on page 10.								
Parametrisation	Remote configuration by USB cable and PC tool MCP. However, any changes using MCP are not recommended, unless they are:								
	 done after receiving corresponding training by Burkert, 								
	carried out by a professional,								
	agreed by the end user, and								
	done in accordance with the MCP manual.								
	Further information can be found in chapters "5. Product operation" on page 16, "6. Product accesso- ries" on page 17 and "8.5. Ordering chart accessories" on page 23.								
Data logger	An EEPROM stores the measured values (in case of power failure)								
Special function	Bidirectional measure								
Performance data									
At reference conditions and a	according to internal test procedures:								
At room temperature									
 Constant flow rate during 	the test, liquid speed >1 m/s								
 Pressure: > 30 Kpa 									
 Flow condition: observed i 	inlet and outlet conditions								
 Zero point stability: ± 0.00 	5%								
 Default configuration if orc chapter "4.2. Default configuration 	dered together with sensor Type S051, Type S054, Type S055, Type S056. Further information can be found i iguration" on page 15.								
Measurement deviation	\leq ± 0.5 % of the measured value for flow velocity > 0.5 m/s Further information can be found in chapter "4.1. Measurement deviation diagram" on page 14.								
Repeatability	\leq ± 0.25 % of the measured value for flow velocity > 0.5 m/s								
Response time	Minimum time								
	• for analogue output (AO), when damping setting is deactivated and according to sensor size:								
	– DN 03DN 250: 20 ms								
	– DN 300DN 400: 100 ms								
	for digital output (DO):								
	 100 ms (if used with the sensor Type S054 or Type S055) 								
	 20 ms (if used with the sensor Type S051 or Type S056) 								
Electrical data									
Operating voltage	1230 V DC if not using mA output								
	 1830 V DC if using mA output 								
Power consumption	Max. 1 W								

Power consumption Max.1W Input None



Output	Transistor:
	 NPN only (PNP not possible), open collector
	 NPN output: 2 digital outputs (DO)
	 configurable as
	 pulse/frequency (1250 Hz, max. 100 mA, 30 V DC) or
	– alarms
	Current:
	 – 1 analogue output (AO), 0/420 mA, RL = 500 Ω (1830 V DC)
Protection class	Class I
Medium data	
Velocity range	0.410 m/s
Minimum conductivity	20 μS/cm
Connections & communication	
Electrical connection	1 × 5-pin M12 female connector (included in the delivery) or
	Cable gland with 2 meter cable, already connected
Plug for configuration connection	USB port for the connection to PC (USB cable with USB mini B and USB type A connectors is required for the configuration and parameter settings)
Approvals and conformities	
Directives	
CE directive	Further information on the CE directive can be found in chapter "2.2. Standards" on page 9.
Environment and installation	
Ambient temperature	Operation and storage:
	 if analogue output used: - 20+ 60 °C (- 4+ 140 °F)
	 if no analogue output used: -10+ 60 °C (14+ 140 °F)
Relative air humidity	0100%, without condensation
Height above sea level	- 200 up to + 2000 m
Operating condition	Continuous
Equipment mobility	Fixed device
Application range	Indoor and outdoor
	Protect the device against electromagnetic interference, ultraviolet rays and, when installed outdoors, against the effects of climatic conditions.
Degree of protection according to IEC/EN 60529	IP65, IP67 (IP68 optional)
Installation category	Category II according to UL/EN 61010-1
Pollution degree	Degree 2 according to UL/EN 61010-1

2. Approvals and conformities

2.1. Conformity

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

2.2. 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.

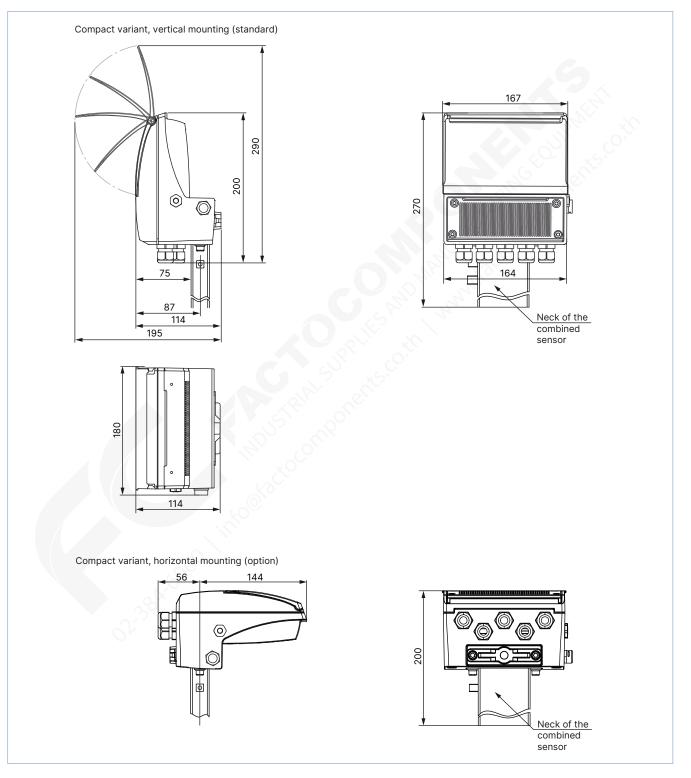


3. Dimensions

3.1. SE58 L and SE58 M transmitter

Compact variant with housing in aluminium or reinforced nylon

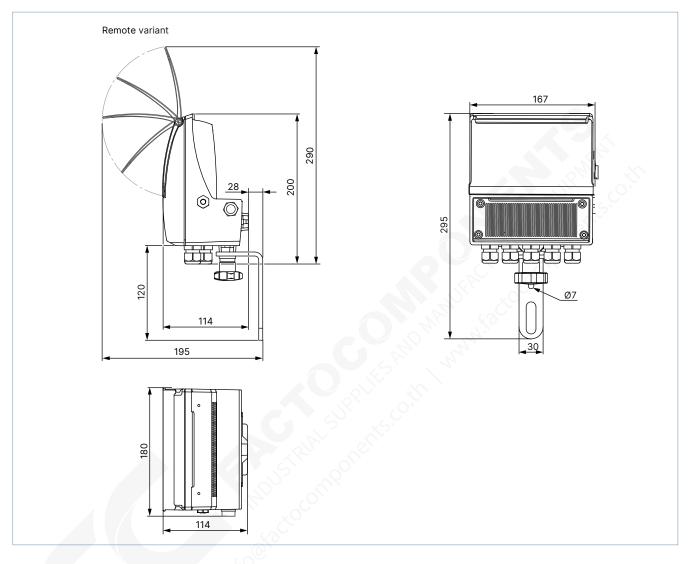
Note:





Remote variant with housing in aluminium or reinforced nylon

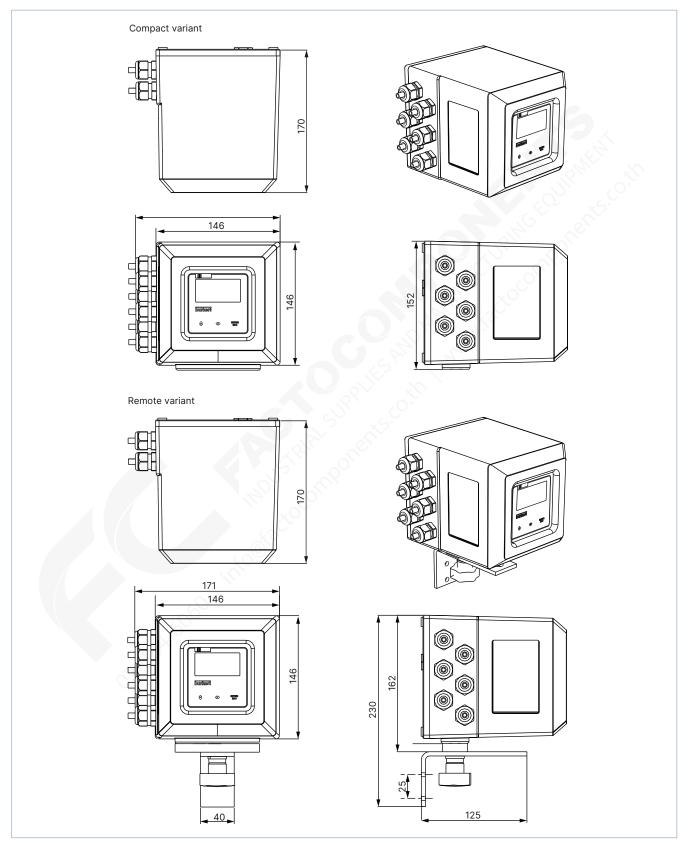
Note:





Compact and remote variants with housing in stainless steel

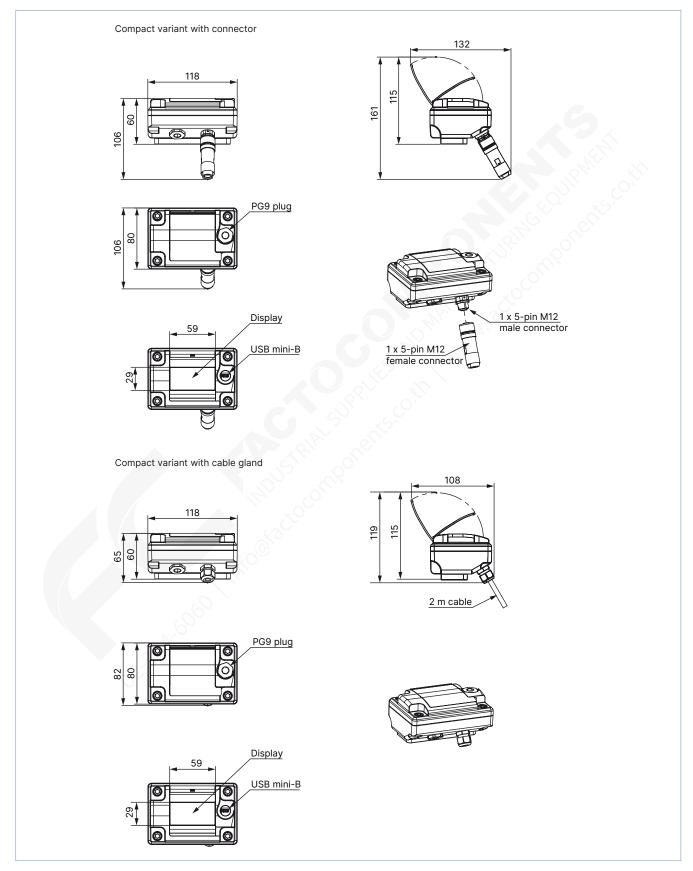
Note:





3.2. SE58 S transmitter

Note:





4. **Performance specifications**

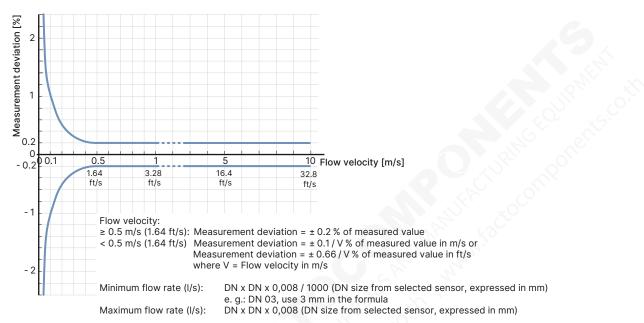
Measurement deviation diagram 4.1.

SE58 L transmitter

Note:

This following diagram is valid for the complete device (transmitter Type SE58 L combined with a flow sensor Type S051, Type S054, Type S055 or Type S056).

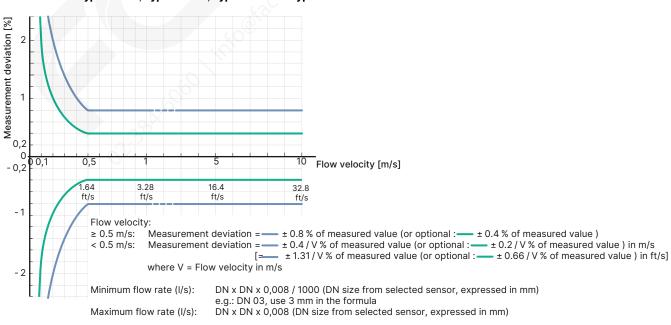
See data sheet Type S051 >, Type S054 >, Type S055 > or Type S056 >



SE58 M transmitter

Note:

This following diagram is valid for the complete device (transmitter Type SE58 M combined with a flow sensor Type S051, Type S054, Type S055 or Type S056).



See data sheet Type S051 >, Type S054 >, Type S055 > or Type S056 >

14 23

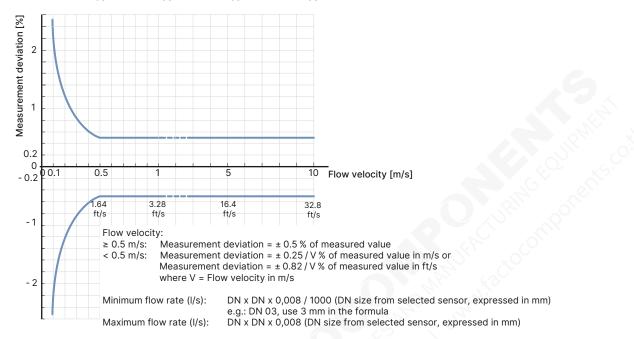


SE58 S transmitter

Note:

This following diagram is valid for the complete device (transmitter Type SE58 L and flow sensor Type S051, Type S054, Type S055 or Type S056).

See data sheet Type S051 ▶, Type S054 ▶, Type S055 ▶ or Type S056 ▶



4.2. Default configuration

Note:

This following diagram is valid for the complete device (transmitter Type SE58 L, Type SE58 M or Type SE58 S combined with a flow sensor Type S051, Type S054, Type S055 or Type S056).

DN	3	6	10	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500
At 4 mA in m³/h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
At 20 mA in m³/h	0.1	0.6	2	4	8	16	25	40	63	120	160	250	400	630	1000	1600	2500	2500	4000	4000	6300
Litre per pulse	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	1	2	10	10	10	10	10	10	10	100	100



5. Product operation

The configuration can be done in two different ways:

- by transmitter keypad if equipped with display (except for transmitter SE58 S)
- by USB cable and PC tool MCP (virtual display of instrument) for transmitter with or without display.

This MCP software runs under MS Windows and it is available for download on the Bürkert's website for free. However, any changes using MCP are not recommended, unless they are:

- done after receiving corresponding training by Burkert,
- carried out by a professional,
- agreed by the end user, and
- done in accordance with the MCP manual which can be found under Type SE58 ▶ on the Bürkert's website.

When using the MCP software, you agree to the following software Tools End User License Agreement "MCP" (STEULA):

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software") to use the software, and to permit persons to whom the software is furnished to do so subject to the conditions of this STEULA.

In a nutshell

- The software is intended for use by professionals and professionally, and in connection with our products only.
- Although we provide access to a convenient tool, it is not required for the use of our products. We are not liable for any consequence in using this software.
- We will update the software from time to time, but not regularly, and may at any point in time discontinue to offer the software or its updates for download.
- The software may include technical or other mistakes, inaccuracies or typographical errors.
- At any time without prior notice, we may make changes to the software pointing to third-party websites or shops or documentation made available on the third-party's website.
- The software may be out of date and we make no commitment to update such documents.

Legal advise

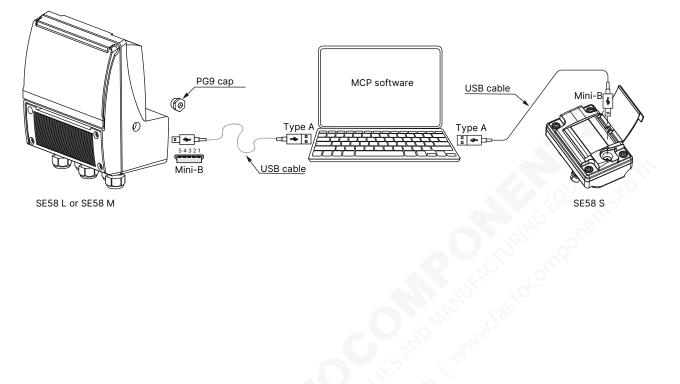
- 1. One registered copy of supplied software may either be used by a single person who uses the software personally on one or more computers, or installed on a single computer used non-simultaneously by multiple people, but not both.
- 2. You may access to software through a network, provided that you have obtained and agreed to individual licenses for the software. The licenses must cover all computers that will access the software through the network regardless if they access the software program simultaneously or at different times.
- 3. You are not allowed to modify its content, decompose, decompile its components, redistribute, offer or sell the software.
- 4. You are solely responsible for determining the appropriateness of using the software and assume any risks associated with your exercise of permissions under this license.
- 5. This software and any accompanying files are given free of charge "as is" and without warranties, express or implied, as to performance or merchantability or non-infringement of third party rights.
- 6. No advice or information, whether oral or written, obtained by you from us shall create any warranty for the software.
- 7. Good data processing procedure dictates that any program shall be thoroughly tested in a non-critical environment before using the software. You must assume the entire risk of using the program. Note that using the software impacts the operability / functionality of the hardware and may have severe consequences for the production of the facility the hardware is installed in.
- 8. The software is in particular not designed, intended, licensed or authorized for use in any type of system or application in which the failure of the system or application could create a situation where personal injury or death may occur (e.g., medical systems, life support, life-sustaining systems, life-saving systems or security systems) or in hazardous environments requiring fail-safe controls, including without limitation, the design, construction, maintenance or operation of nuclear facilities, aircraft navigation or communication systems, air traffic control or weapons systems. The licensor specifically disclaims any express or implied warranty of fitness for such purposes.
- 9. In no event shall we be liable for any direct, indirect, incidental, special, exemplary or consequential damages (including, without limitation, procurement of substitute goods or services, loss of use, data or profits or business interruption) however caused and on any theory of liability, whether in contract, strict liability or tort (including negligence or otherwise) arising in any way out of the use of this software, even if advised of the possibility of such damage

To download the MCP software, see **Type SE58** ▶ on the Bürkert's website.



6. Product accessories

An USB cable with USB mini B and USB type A connectors serves as the interface between computer and transmitter (see "8.5. Ordering chart accessories" on page 23 and "5. Product operation" on page 16).





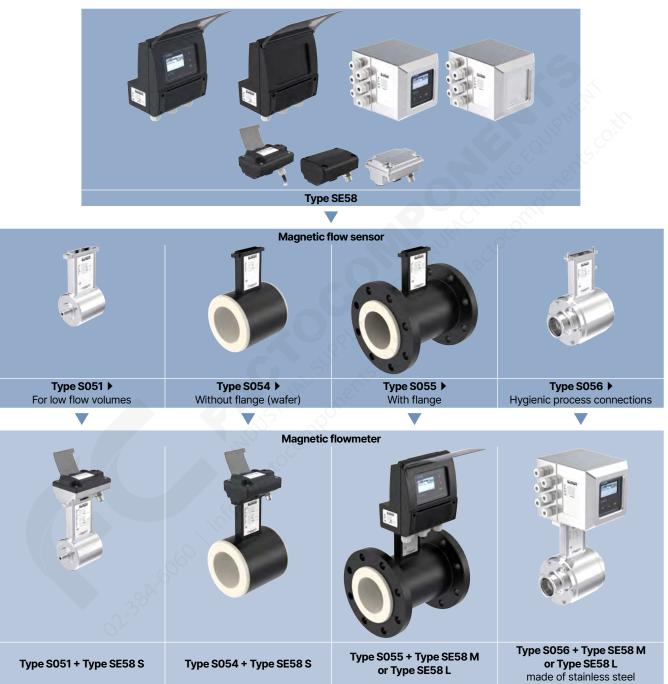
7. Networking and combination with other Bürkert products

7.1. Compact variant

Note:

The compact Type SE58 transmitter is intended for use with Type S051, Type S045, Type S055 or Type S056 compact flow sensors.

Example:



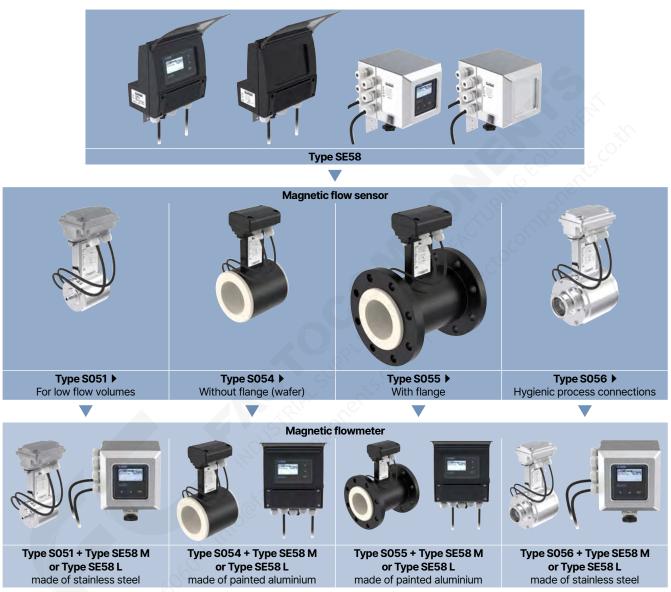


7.2. Remote variant

Note:

The Type SE58 transmitter is intended for use with Type S051, Type S045, Type S055 or Type S056 flow sensors, each in design for the remote variant.

Example:





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. Recommendation regarding product selection

A complete full bore flowmeter consists of a flow sensor (compact or remote variant) Type S051, Type S054, Type S055 or Type S056 and a flow transmitter (compact or remote variant) Type SE58.

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

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

- Article no. of the sensor Type S051, Type S054, Type S055 or Type S056 (see Data sheet Type S051), Type S054), Type S055) or Type S056) for more information.)
- Article no. of the transmitter Type SE58 (see chapter "SE58 L transmitter" on page 21, "SE58 M transmitter" on page 22 or "SE58 S transmitter" on page 23.)

8.3. Bürkert product filter

2		5 Solarge / Encauency	Process	Pressure / Sealing
C and a second	hanced filters	Colupse al litters		
-1	bur han	Nominal prossure m	ax . bar	Nominal pressure may (gas)
-	0.5	-	5	2.5

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



8.4. Ordering chart

SE58 L transmitter

Note:

- Not all SE58 L transmitter variants are listed in the following table. If the desired variant is not mentioned, please contact your Bürkert representative.
- The following variants are vertically mounted variants.

Operating voltage	Output	Network protocol	Housing material	Electrical connection	Article no.	
Compact varian	t with display					
100240 V AC	2 digital outputs (transistors)	Without	Aluminium	5 cable glands	571500 🛒	
			Stainless steel	6 cable glands	571507 🛒	
	2 digital outputs (transistors) +		Aluminium	5 cable glands	571501 🛒	
	analogue output (420 mA)		Stainless steel	6 cable glands	571508 🛒	
1248 V DC	2 digital outputs (transistors) +		Aluminium	5 cable glands	571502 🛒	
	analogue output (420 mA)		Stainless steel	6 cable glands	571509 🛒	
Remote variant ¹	⁾ (wall-mounting) with display					
100240 V AC	2 digital outputs (transistors)	Without	Aluminium	5 cable glands	571505 🛒	
			Stainless steel	6 cable glands	571510 🛒	
	2 digital outputs (transistors) +		Aluminium	5 cable glands	571506 🛒	
	analogue output (420 mA)		Stainless steel	6 cable glands	571511 🛒	
1248 V DC	2 digital outputs (transistors) +		Aluminium	5 cable glands	571503 🛒	
	analogue output (420 mA)		Stainless steel	6 cable glands	571513 🛒	

1.) Remote variants include two 10 m signal cable. If a longer cable is needed please consider that for ordering.

	Further variants on request Material
	Nylon reinforced
	Additional
	Compact variant for horizontal mounting or remote variant
•	 Variant with display (visible from the top or from the front) or without display
•	• Outputs:
	– 420 mA (1 or 2)
	 RS 485 (with protocol Modbus)
	– 2 transistors
•	Industrial communication:
	 RS 485 (with protocol Modbus)
	- HART
	– Wi-Fi (for parameter settings)
•	Data logger with memory card 4GB
	 Degree of protection according to IEC/EN 60529: IP68

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SE58 M transmitter

Note:

- Not all SE58 M transmitter variants are listed in the following table. If the desired variant is not mentioned, please contact your Bürkert representative.
- The following variants are vertically mounted variants and delivered with a measurement deviation of 0.8% from the measured value.

Operating voltage	Outputs	Industrial communication	Housing material	Electrical connection	Article no.
Compact varian	t with display				
100240 V AC	2 digital outputs (transistors)	Without	Nylon reinforced	5 cable glands	571540 🛒
			Stainless steel	6 cable glands	571548 🛒
	2 digital outputs (transistors) + analogue output (420 mA)		Nylon reinforced	5 cable glands	571541 🛒
			Stainless steel	6 cable glands	571549 🐖
1248 V DC	2 digital outputs (transistors)		Nylon reinforced	5 cable glands	571542 🛒
			Stainless steel	6 cable glands	571550 🛒
	2 digital outputs (transistors) + analogue output (420 mA)		Nylon reinforced	5 cable glands	571543 🛒
			Stainless steel	6 cable glands	571551 🛒
Compact varian	t without display				
100240 V AC	2 digital outputs (transistors)	Without	Nylon reinforced	5 cable glands	571544 🛒
			Stainless steel	6 cable glands	571552 🛒
	2 digital outputs (transistors) +		Nylon reinforced	5 cable glands	571545 🛒
	analogue output (420 mA)		Stainless steel	6 cable glands	571553 🛒
1248 V DC	2 digital outputs (transistors)		Nylon reinforced	5 cable glands	571546 🛒
			Stainless steel	6 cable glands	571554 🛒
	2 digital outputs (transistors) + analogue output (420 mA)		Nylon reinforced	5 cable glands	571547 🛒
			Stainless steel	6 cable glands	571555 🛒

Further variants on request

Material Aluminium

DTS 1000463561 EN Version: G Status: RL (released | freigegeben | validé) printed: 23.08.2024

Additional

- Compact variant for horizontal mounting or remote variant
- Variant with display (visible from the top or from the front) or without display
- Outputs :
 - 4...20 mA (1 or 2)
 - RS 485 (with protocol Modbus)
- 2 transistors
- Measurement deviation of 0.4 % of the measured value
- Industrial communication:
 - RS 485 (with protocol Modbus)
 - HART
 - Wi-Fi (for parameter settings)
- Data logger with memory card 4GB
- Degree of protection according to IEC/EN 60529: IP68



SE58 S transmitter

Note:

• Not all SE58 S transmitter variants are listed in the following table. If the desired variant is not mentioned, please contact your Bürkert representative.

Operating voltage	Outputs	Industrial communication	Housing material	Electrical connection	Article no.
Compact varian	t with display				
1230 V DC ^{1.)}	2 digital outputs (transistors)	Without	Stainless steel polished	Cable gland with 2 m cable, already con- nected	571582 🛒
	2 digital outputs (transistors) + analogue output (420 mA)				571583 🛱
Compact varian	t without display				
1230 V DC ^{1.)}	2 digital outputs (transistors)	Without	Stainless steel polished	Cable gland with 2 m cable, already con- nected	571580 🛒
	2 digital outputs (transistors) + analogue output (420 mA)				571581 🛒

1.) 12...30 V DC if not using mA output or 18...30 V DC if using mA output

	Further variants on request	
	Electrical connection 1 × 5-pin M12 female connector	
71717 17171 17171	Material Aluminium, raw stainless steel, polished stainless steel	
>	AdditionalVariant with display	
	 Degree of protection according to IEC/EN 60529: IP68 	

8.5. Ordering chart accessories

Description

USB cable with mini B and A connectors,	cable length: 18 m

Article no. 919499 ₩