## Technical data (electronics SE56 standard with local display) - continued

| Electrical data | |
|---|---|
| **Power supply** | 90...265 V AC - 44 Hz up to 66 Hz |
| **Power consumption** | max. 25 VA |
| **Cable length** | max. 20 m (distance between sensor and transmitter) |
| **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 |
| Datalogger* | 2 MB, 32 values + 64 alarm events |
| **Velocity range** | 0.4 m/s ... 10 m/s |

* on request.

| Electrical data (continued) | |
|---|---|
| **Measurements tolerance** | Flow rate (volume) = ±0.05% of reading<br>Out 4/20 mA = ±0.08% of reading<br>Frequency out = ±0.08% of reading |
| **Accuracy** [1] | ±0.2% of reading (see diagram, on page 1) |
| **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<br>Dual measurement range<br>Diagnostic function<br>Empty pipe detection<br>Remote configuration (for connection to PC or hand terminal through remote configuration tool kit)<br>Batch function |

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

## Technical data (electronics SE56 blind)

| General data | |
|---|---|
| **Compatibility** | S051, S054, S055, S056 sensor (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 Item No. 559 374) |
| **Electrical connection** | 2 cable glands PG9 |

Medium temperature, please see separate data sheets of the complete magflow-meter 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) | |
|---|---|
| **Accuracy** [1] | ±0.2% of reading (see diagram, on page 1) |
| **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<br>Diagnostic function<br>Empty pipe detection<br>Remote configuration (for connection to PC or hand terminal)<br>Batch function |
| **Velocity range** | 0.4 m/s ... 10 m/s |

| Environment | |
|---|---|
| **Ambient temperature** | |
| Operating and storage | -20°C up to 40°C *(-4°F to 104°F)* |
| **Relative humidity** | ≤ 85%, without condensation |
| **Height above sea level** | -200 m up to 6000 m |

| Standard | |
|---|---|
| **Protection** | Class I, IP67, category of installation II |
| **Standard** | |
| EMC | EN 61326-1 |
| Emission | EN 55011 (Group1, Class B) |
| Immunity | IEC 1000-4-2/3/4/5/6/11 |
| Safety | EN 61010 |

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## Technical data (electronics SE56 basic)

| General data | |
|---|---|
| **Compatibility** | S051, S054, S055, S056 sensor (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 Item No. 559 374) or 3 keys inside |
| **Electrical connection** | 3 cable glands PG11 |

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.

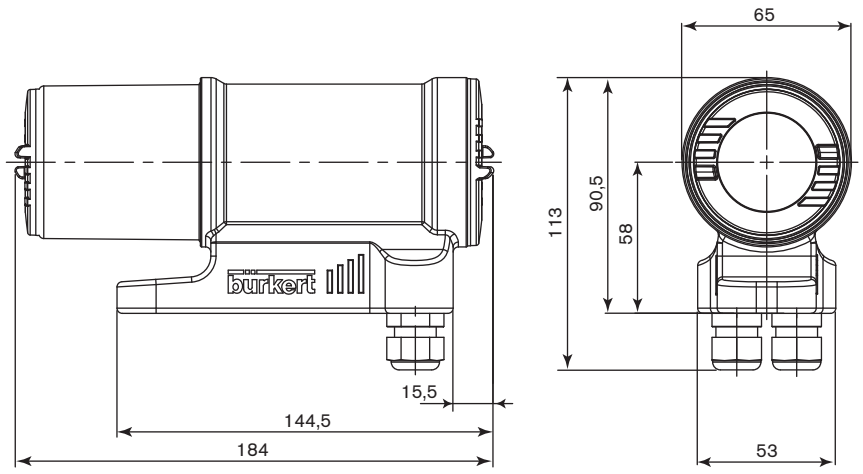
| Electrical data (continued) | |
|---|---|
| **Measurements tolerance** | Flow rate (volume) = ±0.1% of reading<br>Out 4/20 mA = ±0.12% of reading<br>Frequency out = ±0.12% of reading |
| **Accuracy** | ±0.8% of reading (see diagram, on page 1) |
| **Repeatability** | ±0.2% of reading |
| **Galvanic 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<br>Diagnostic function<br>Empty pipe detection<br>Plug in (protected plug for connection to PC or hand terminal) |
| **FS value** | 0.4...10 m/s |

| Environment | |
|---|---|
| **Ambient temperature** | |
| Operating | -10°C up to 50°C *(14°F to 122°F)* |
| Storage | -20°C up to 50°C *(-4°F to 122°F)* |
| **Relative humidity** | ≤ 85%, without condensation |
| **Height above sea level** | -200 m up to 6000 m |

| Standard | |
|---|---|
| **Protection** | Class I, IP65, category of installation II |
| **Standard** | EN 55011 (Group1, Class B) |
| EMI | EN 61326-1, IEC 1000-4-2/3/4/5/6/11 |
| Safety | EN 61010 |

## Dimensions [mm]

### Electronics SE56 blind

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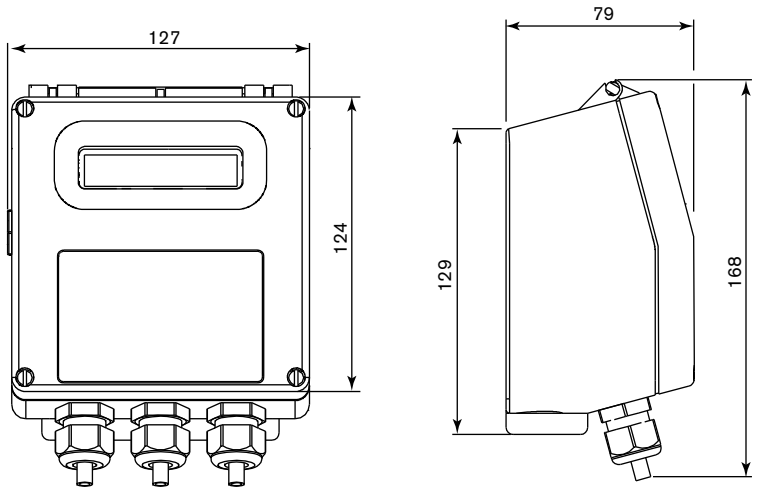
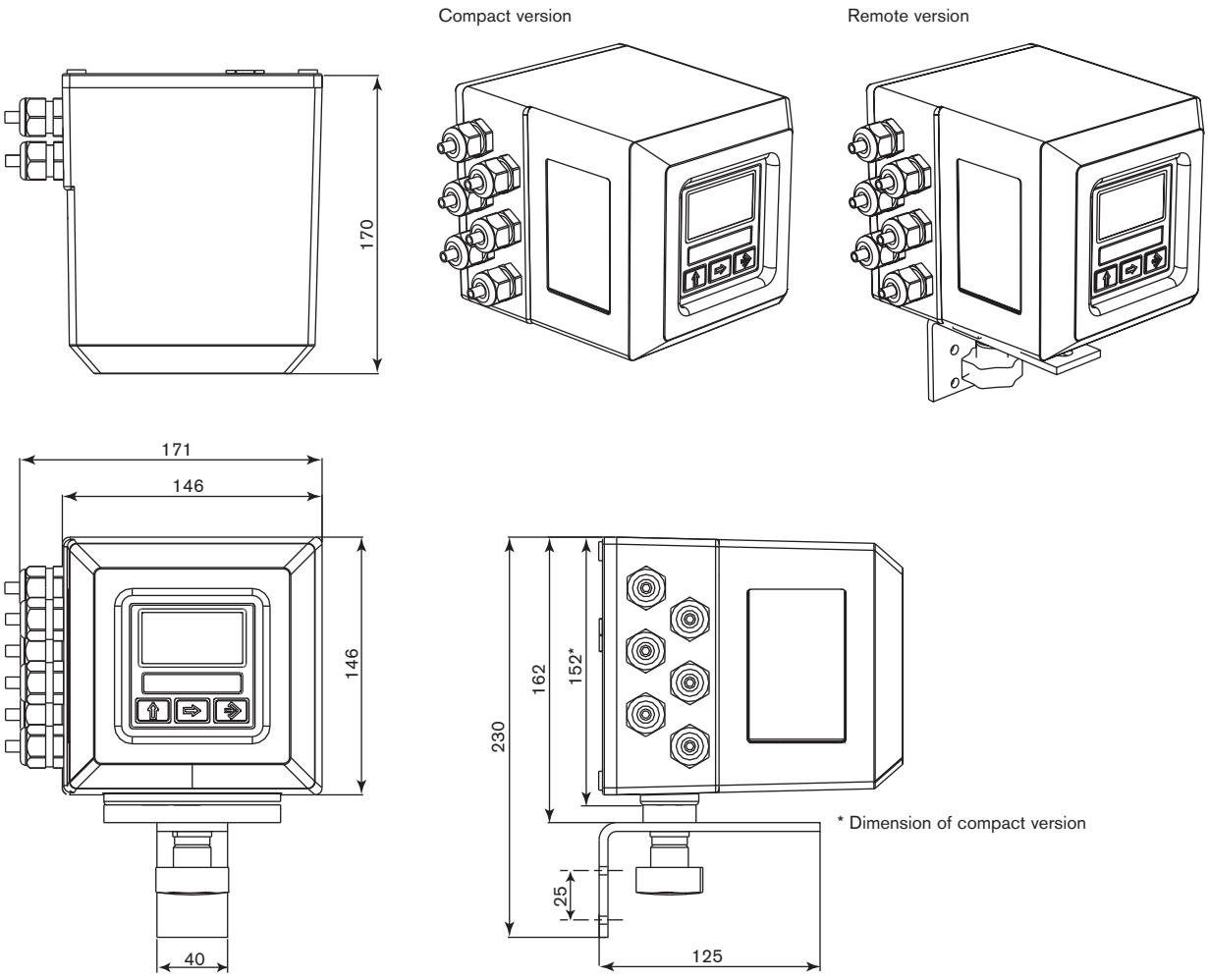
## Dimensions [mm]

### Electronics SE56 Basic




### Electronics SE56 standard with local display

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## Ordering chart for electronics Type SE56 for magflowmeter

| Description | Power supply | Output | Body material | Electrical connection | Item no. |
|---|---|---|---|---|---|
| Standard compact version with local display | 90...265 V AC | 2 transistors | Aluminium | 6 cable glands | 558 745 |
| | | | Stainless steel | 6 cable glands | 559 780 |
| | | 2 transistors + 4...20 mA | Aluminium | 6 cable glands | 558 747 |
| | | | Stainless steel | 6 cable glands | 558 306 |
| Standard wall-mounting version with local display | 90...265 V AC | 2 transistors | Aluminium | 6 cable glands | 559 781 |
| | | | Stainless steel | 6 cable glands | 558 310 |
| | | 2 transistors + 4...20 mA | Aluminium | 6 cable glands | 558 750 |
| | | | Stainless steel | 6 cable glands | 558 308 |
| Basic compact version with display | 90...265 V AC | 2 transistors | Nylon | 3 cable glands | 562 439 |
| | | 2 transistors + 4...20 mA | Nylon | 3 cable glands | 562 440 |
| | 12...60 V DC | 2 transistors | Nylon | 3 cable glands | 562 443 |
| | | 2 transistors + 4...20 mA | Nylon | 3 cable glands | 562 444 |
| Basic compact version without display | 90...265 V AC | 2 transistors | Nylon | 3 cable glands | 562 441 |
| | | 2 transistors + 4...20 mA | Nylon | 3 cable glands | 562 442 |
| | 12...60 V DC | 2 transistors | Nylon | 3 cable glands | 562 445 |
| | | 2 transistors + 4...20 mA | Nylon | 3 cable glands | 562 446 |
| Blind compact version | 20...30 V DC | up to 4 transistors | Stainless steel | 2 cable glands | 559 132 |
| | | up to 4 transistors + 4...20 mA | Stainless steel | 2 cable glands | 559 133 |
| | | up to 4 transistors + PROFIBUS DP | Stainless steel | 2 cable glands | 559 134 |

**Further versions on request**

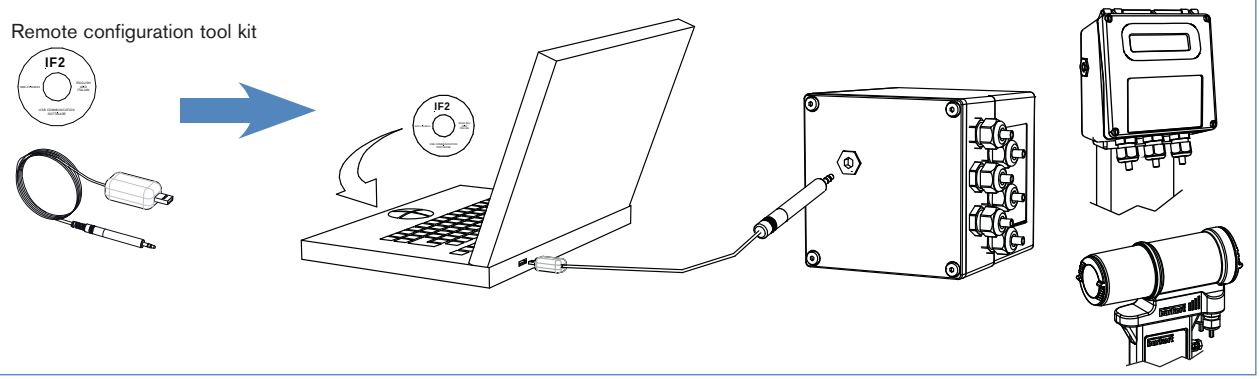
Please also use the "request for quotation" form on page 7 for ordering a customized electronics go to page .

## Ordering chart - spare parts/accessories

| Electrical connection | Item no. |
|---|---|
| Remote configuration tool kit | 559 374 |

### Configuration accessories

Remote configuration tool kit

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