SITRANS F flowmeters
SITRANS F M

Flow sensor MAG 5100 W

Overview

The SITRANS F M MAG 5100 W is an electromagnetic flow sensor designed to meet groundwater, drinking water, waste water, sewage or sludge applications.

Benefits

- DN 25 to DN 1200 / 2000 (1” to 48” / 78”)
- Stock program of MAG 5100 W secures short delivery time
- Connection flanges EN 1092-1 (DIN 2501), ANSI, AWWA, AS and JIS.
- NBR Hard Rubber and Ebonite Hard Rubber liner for all water applications
- Drinking water EPDM liner with approvals
- Hastelloy integrated grounding and measuring electrodes
- Increased low flow accuracy for water leak detection, due to coned liner design (Order No. 7ME6520, DN 50 to 300 mm (2” to 12”).
- Drinking water approvals
- Suitable for direct burial and constant flooding
- Custody transfer approvals
- Build-in length according to ISO 13359
- Easy commissioning, SENSORPROM unit automatically uploads calibration values and settings.
- Designed so patented in-situ verification can be conducted. Using SENSORPROM fingerprint.
- Custody Transfer option for water billing, with type approval after OIML R49 and verified according to MI-001 for DN 50 (2”) to DN 300 (12”).
  - Pattern approval OIML R 49 (Denmark, Germany)
  - conforms to ISO 4064 and EN 14154
  - MI-001 Custody Transfer approval for billing (EU)
- Meets EEC directives: PED, 97/23/EC pressure directive for EN1092-1 flanges
- Simple onsite or factory upgrade to IP68/NEMA 6P of a standard sensor.

Application

The main applications of the SITRANS F M electromagnetic flow sensors can be found in the following fields:
- Water abstraction
- Water treatment
- Water distribution network (leak detection management)
- Custody transfer water meters
- Irrigation
- Waste water treatment
- Filtration plant (e.g. reverse osmosis and ultra filtration)
- Industrial water applications

Mode of operation

The flow measuring principle is based on Faraday’s law of electromagnetic induction were the sensor converts the flow into an electrical voltage proportional to the velocity of the flow.

Integration

The complete flowmeter consists of a flow sensor and an associated transmitter SITRANS F M MAG 5000, MAG 6000 or MAG 6000 I.

The flexible communication concept USM II simplifies integration and update to a variety of fieldbus systems, e.g. HART, DeviceNet, PROFI BUS DP and PA, FOUNDATION Fieldbus H1, MODBUS RTU/RS485.
# Technical specifications

<table>
<thead>
<tr>
<th>Product characteristic</th>
<th>Targeted towards the EU water markets and low-flow applications</th>
<th>Targeted towards the Non-EU water markets</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPDM or NBR lining (Order No. 7ME6520)</td>
<td>EPDM or NBR lining (Order No. 7ME6580)</td>
<td>Ebonite lining (Order No. 7ME6580)</td>
</tr>
<tr>
<td>Design and nominal size</td>
<td>Full bore sensor: DN 25 ... 40 (1” ... 1½”)</td>
<td>Full bore sensor: DN 25 ... 2000 (1” ... 78”)</td>
</tr>
<tr>
<td>Coned sensor: DN 50 ... 300 (2” ... 12”)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full bore sensor: DN 350 ... 1200 (14” ... 48”)</td>
<td>Electromagnetic induction</td>
<td>Electromagnetic induction</td>
</tr>
<tr>
<td>Measuring principle</td>
<td>Excitation frequency (Mains supply: 50/60 Hz)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DN 25 ... 65 (1” ... 2½“): 12.5 Hz/15 Hz</td>
<td>DN 25 ... 65 (1” ... 2½“): 12.5 Hz/15 Hz</td>
</tr>
<tr>
<td></td>
<td>DN 80 ... 150 (3” ... 6“): 6.25 Hz/7.5 Hz</td>
<td>DN 80 ... 150 (3” ... 6“): 6.25 Hz/7.5 Hz</td>
</tr>
<tr>
<td></td>
<td>DN 200 ... 300 (8” ... 12“): 3.125 Hz/3.75 Hz</td>
<td>DN 200 ... 1200 (8” ... 48“): 3.125 Hz/3.75 Hz</td>
</tr>
<tr>
<td></td>
<td>DN 350 ... 1200 (14” ... 48“): 1.5625 Hz/1.875 Hz</td>
<td>DN 1400 ... 2000 (54” ... 78“): 1.5625 Hz/1.875 Hz</td>
</tr>
</tbody>
</table>

## Process connection

### Flanges
- **EN 1092-1**
  - PN 10 (145 psi): DN 200 ... 300 (8” ... 12“) Flat face flanges
  - PN 16 (232 psi): DN 50 ... 300 (2” ... 12“) Raised face flanges
  - PN 20 (360 psi): DN 350 ... 1200 (14” ... 48“) Raised face flanges
  - PN 40 (580 psi): DN 25 ... 50 (1” ... 2”) Raised face flanges

- **ANSI B16.5**
  - Class 150 lb: 1” ... 24”

- **AWWA C-207**
  - Class D: 28” ... 78”, flat face

- **AS4087**
  - PN 16 (DN 50 ... 1200), (2” ... 48”) 16 bar (232 psi)

- **JIS B 2220:2004**
  - K10 (1” ... 24”)

## Rated Operation conditions

### Ambient temperature
- **Sensor**
  - -40 ... +70 °C (-40 ... +158 °F)
  - -20 ... +60 °C (-4 ... +140 °F)

- **With compact transmitter MAG 5000/6000**
  - -40 ... +70 °C (-40 ... +158 °F)
  - -20 ... +60 °C (-4 ... +140 °F)

- **With compact transmitter MAG 6000 I**
  - -40 ... +70 °C (-40 ... +158 °F)
  - -20 ... +60 °C (-4 ... +140 °F)

### Operating pressure (Abs)
- **DN 25 ... 40 (1” ... 1½“):**
  - 0.01 ... 40 bar (0.15 ... 580 psi)
- **DN 50 ... 300 (2” ... 12“):**
  - 0.03 ... 10 bar (0.44 ... 145 psi)
- **DN 350 ... 1200 (14” ... 48“):**
  - 0.01 ... 16 bar (0.15 ... 232 psi)

### Enclosure rating
- **Standard**
  - IP67 to EN 60529 / NEMA 4X/6 (1 mH₂O for 30 min)

- **Option**
  - IP67 to EN 60529 / NEMA 4X/6 (1 mH₂O for 30 min)
  - IP68 to EN 60529 / NEMA 6P (10 mH₂O continuously)

### Pressure drop at 3 m/s (10 ft/s)
- **As straight pipe**
  - DN 25 ... 40 (1” ... 1½“): 0.01 ... 16 bar (0.15 ... 232 psi)
  - DN 50 ... 300 (2” ... 12“): 0.03 ... 10 bar (0.15 ... 145 psi)

<table>
<thead>
<tr>
<th>Test pressure</th>
<th>Mechanical load</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 ... 1000Hz random in y, z directions for 2 hours according to EN 60068-2-36</td>
<td>18 ... 1000 Hz random in x, y, z directions for 2 hours according to EN 60068-2-36</td>
</tr>
<tr>
<td>Sensor: 3.17 grms</td>
<td>Sensor: 3.17 grms</td>
</tr>
<tr>
<td>Sensor with compact MAG 5000/6000 mounted transmitter: 3.17 grms</td>
<td>Sensor with compact MAG 5000/6000 mounted transmitter: 3.17 grms</td>
</tr>
<tr>
<td>Sensor with compact MAG 6000 I mounted transmitter: 1.14 grms</td>
<td>Sensor with compact MAG 6000 I mounted transmitter: 3.17 grms</td>
</tr>
</tbody>
</table>
## MAG 5100 W with MAG 6000 CT (Revenue program) MI-001

MAG 5100 W CT program is type approved according to international water meter standard OIML R 49. Since the first November 2006 the MI-001 water meter directive is in force, which means that all water meters can be sold across the EU borders if the water meters contain a MI-001 label.

The MAG 5100 W MI-001 verified and labeled products are a Class II approval according to Directive 2004/22/EC of the European Parliament and Council of March 31, 2004 on measuring instruments (MID), Annex MI-001 in the sizes from DN 50 to DN 300 (Order No. 7ME6520).

The MID certification is obtained as a modul B + D module approval according to the above mentioned directive.

### Module B : Type approval according to OIML R 49

### Module D : Quality insurance approval of production

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### Flow sensor MAG 5100 W - Product characteristics

**Targeted towards the EU water markets and low-flow applications**

- **EPDM or NBR lining (Order No. 7ME6520)**

<table>
<thead>
<tr>
<th>Medium conditions</th>
<th>Targeted towards the Non-EU water markets</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Temperature of medium</strong></td>
<td><strong>EBRONITE lining (Order No. 7ME6580)</strong></td>
</tr>
<tr>
<td>NBR</td>
<td>-10 ... +70 °C (14 ... 158 °F)</td>
</tr>
<tr>
<td>EPDM</td>
<td>-10 ... +70 °C (14 ... 158 °F)</td>
</tr>
<tr>
<td>EPDM (MI-001)</td>
<td>0.1 ... 30 °C (32 ... 76 °F)</td>
</tr>
<tr>
<td>EBONITE</td>
<td>-10 ... +70 °C (14 ... 158 °F)</td>
</tr>
</tbody>
</table>

**EMC**

- 89/336 EEC

**Design**

- **Material**
  - **Housing and flanges**: Carbon steel, with corrosion-resistant two-component epoxy coating (min. 150 µm)
  - **Corrosivity category C4, according to ISO 12944-2**
  - **Measuring pipe**: AISI 304 (1.4301) (DN 50 ... 300 (2" ... 12")
  - **Electrode**: Hastelloy
  - **Grounding electrode**: Hastelloy
  - **Terminal box**: Fibre glass reinforced polyamide

**Certificates and approvals**

- **Custody Transfer (only together with MAG 6000 CT)**
  - OIML R 49 pattern approval cold water (Denmark and Germany): DN 50 ... 300 (2" ... 12")
  - MI 001 cold water (EU): DN 50 ... 300 (2" ... 12")

**Drinking water approvals**

- EPDM: NSF/ANSI Standard 61 (Cold water, US)
- WRAS (WRc, BS6920 cold water, GB)
- ACS listed (F)
- DVGW W270 (D)
- Belgaqua (B)
- MCERTS

- NBR: NSF/ANSI Standard 61 (Cold water, US, only ANSI B16.5 flanges)

**Pressure approvals**

- PED conforming: All EN1092-1 flanges and ANSI Class 150 (< DN 300 (<12")) – 97/23 EC (only ≤ DN 600 (< 24"))
- CRN
- FM Class 1, Div 2 (pending)

- PED (All EN1092-1 flanges conforms to PED) – 97/23 EC (only ≤ DN 600 (< 24"))
- CRN
- FM Class 1, Div 2 (pending)

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1) For sizes larger than 600 mm (24") in PN 16 PED conformity is available as a cost-added option. The basic unit will carry the LVD (Low Voltage Directive) and EMC approval.

All products sold outside of EU and EFTA are excluded from the directive, also products sold into certain market sectors are excluded. These include:

1) Meters used in networks for the supply, distribution and discharge of water.
2) Meters used in pipelines for the conveyance of any fluid from offshore to onshore.
3) Meters used in the extraction of petroleum or gas, including christmas tree and manifold equipment.
4) Any meter mounted on a ship or mobile offshore platform.
MAG 5100 W MI-001 verified and labeled products at a given Q3 and Q3/Q4 = 1.25 and Q2/Q1 = 1.6 measuring ranges see table below:

<table>
<thead>
<tr>
<th>DN</th>
<th>50 (2&quot;)</th>
<th>65 (2½&quot;)</th>
<th>80 (3&quot;)</th>
<th>100 (4&quot;)</th>
<th>125 (5&quot;)</th>
<th>150 (6&quot;)</th>
<th>200 (8&quot;)</th>
<th>250 (10&quot;)</th>
<th>300 (12&quot;)</th>
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<tbody>
<tr>
<td>Q4 [m³/h]</td>
<td>20</td>
<td>31.25</td>
<td>50</td>
<td>78.75</td>
<td>125</td>
<td>200</td>
<td>312.5</td>
<td>500</td>
<td>787.5</td>
</tr>
<tr>
<td>Q3 [m³/h]</td>
<td>16</td>
<td>25</td>
<td>40</td>
<td>63</td>
<td>100</td>
<td>160</td>
<td>250</td>
<td>400</td>
<td>630</td>
</tr>
<tr>
<td>Q2 [m³/h]</td>
<td>1.02</td>
<td>1.6</td>
<td>2.6</td>
<td>4.03</td>
<td>6.4</td>
<td>10.24</td>
<td>16</td>
<td>25.6</td>
<td>40.32</td>
</tr>
<tr>
<td>Q1 [m³/h]</td>
<td>0.64</td>
<td>1.00</td>
<td>1.60</td>
<td>2.52</td>
<td>4.0</td>
<td>6.4</td>
<td>10.0</td>
<td>16.0</td>
<td>25.2</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>DN</th>
<th>50 (2&quot;)</th>
<th>65 (2½&quot;)</th>
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<th>125 (5&quot;)</th>
<th>150 (6&quot;)</th>
<th>200 (8&quot;)</th>
<th>250 (10&quot;)</th>
<th>300 (12&quot;)</th>
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</thead>
<tbody>
<tr>
<td>„R“ Q3/Q1</td>
<td>63</td>
<td>63</td>
<td>63</td>
<td>63</td>
<td>63</td>
<td>63</td>
<td>63</td>
<td>63</td>
<td>63</td>
</tr>
<tr>
<td>Q4 [m³/h]</td>
<td>20</td>
<td>31.25</td>
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<td>Q3 [m³/h]</td>
<td>16</td>
<td>25</td>
<td>40</td>
<td>63</td>
<td>100</td>
<td>160</td>
<td>250</td>
<td>400</td>
<td>630</td>
</tr>
<tr>
<td>Q2 [m³/h]</td>
<td>0.41</td>
<td>0.63</td>
<td>1.02</td>
<td>1.6</td>
<td>2.54</td>
<td>4.06</td>
<td>6.35</td>
<td>10.2</td>
<td>16.0</td>
</tr>
<tr>
<td>Q1 [m³/h]</td>
<td>0.25</td>
<td>0.40</td>
<td>0.63</td>
<td>1.00</td>
<td>1.59</td>
<td>2.54</td>
<td>3.97</td>
<td>6.35</td>
<td>7.90</td>
</tr>
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</table>

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<tr>
<th>DN</th>
<th>50 (2&quot;)</th>
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<th>150 (6&quot;)</th>
<th>200 (8&quot;)</th>
<th>250 (10&quot;)</th>
<th>300 (12&quot;)</th>
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<tbody>
<tr>
<td>„R“ Q3/Q1</td>
<td>80</td>
<td>80</td>
<td>80</td>
<td>80</td>
<td>80</td>
<td>80</td>
<td>80</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td>Q4 [m³/h]</td>
<td>20</td>
<td>31.25</td>
<td>50</td>
<td>78.75</td>
<td>125</td>
<td>200</td>
<td>312.5</td>
<td>500</td>
<td>787.5</td>
</tr>
<tr>
<td>Q3 [m³/h]</td>
<td>16</td>
<td>25</td>
<td>40</td>
<td>63</td>
<td>100</td>
<td>160</td>
<td>250</td>
<td>400</td>
<td>630</td>
</tr>
<tr>
<td>Q2 [m³/h]</td>
<td>0.32</td>
<td>0.50</td>
<td>0.80</td>
<td>1.20</td>
<td>2.00</td>
<td>3.20</td>
<td>5.0</td>
<td>8.0</td>
<td>12.6</td>
</tr>
<tr>
<td>Q1 [m³/h]</td>
<td>0.20</td>
<td>0.31</td>
<td>0.50</td>
<td>0.75</td>
<td>1.25</td>
<td>2.00</td>
<td>3.13</td>
<td>5.0</td>
<td>7.90</td>
</tr>
</tbody>
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<th>250 (10&quot;)</th>
<th>300 (12&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q4 [m³/h]</td>
<td>50</td>
<td>78.75</td>
<td>125</td>
<td>200</td>
<td>312.5</td>
<td>500</td>
<td>787.5</td>
<td>1250</td>
<td>2000</td>
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<tr>
<td>Q3 [m³/h]</td>
<td>40</td>
<td>63</td>
<td>100</td>
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<td>250</td>
<td>400</td>
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<td>1000</td>
<td>1600</td>
</tr>
<tr>
<td>Q2 [m³/h]</td>
<td>0.40</td>
<td>0.63</td>
<td>1.00</td>
<td>1.60</td>
<td>2.50</td>
<td>4.00</td>
<td>6.3</td>
<td>10.0</td>
<td>16.0</td>
</tr>
<tr>
<td>Q1 [m³/h]</td>
<td>0.25</td>
<td>0.39</td>
<td>0.63</td>
<td>1.00</td>
<td>1.56</td>
<td>2.50</td>
<td>3.94</td>
<td>6.3</td>
<td>10.0</td>
</tr>
</tbody>
</table>

The Label is placed on the side of the encapsulation. An example of the product label is shown below:
### Selection and Ordering data

<table>
<thead>
<tr>
<th>Description</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor SITRANS F M MAG 5100 W</td>
<td>7 ME 6 5 2 0 - 1 - 2</td>
</tr>
<tr>
<td>Hastelloy electrodes, carbon steel flanges, EU water markets and low flow applications</td>
<td></td>
</tr>
</tbody>
</table>

**Diameter**

- DN 25 (1")
- DN 40 (1 1/2")
- DN 50 (2")
- DN 65 (2 1/2")
- DN 80 (3")
- DN 100 (4")
- DN 125 (5")
- DN 150 (6")
- DN 200 (8")
- DN 250 (10")
- DN 300 (12")
- DN 350 (14")
- DN 400 (16")
- DN 450 (18")
- DN 500 (20")
- DN 600 (24")
- DN 700 (28")
- DN 750 (30")
- DN 800 (32")
- DN 900 (36")
- DN 1000 (40")
- (42")
- (44")
- DN 1200 (48")

**Flange norm and pressure rating**

- PN 10 (DN 200 ... 1200/8" ... 48")
- PN 16 (DN 50 ... 1200/2" ... 48")
- PN 16, non PED (DN 700 ... 1200/28" ... 48")
- PN 40 (DN 25 ... 40/1" ... 1 1/2")

- to ANSI B16.5:
  - class 150 (1" ... 24")
  - L

- to AWWA C-207:
  - Class D (28" ... 48")

- to AS 4087:
  - PN 16 (DN 50 ... 1200/2" ... 48")

**Liner material**

- EPDM
- NBR Hard Rubber

**Transmitter**

- Sensor for remote transmitter (Order transmitter separately)
- Mag 6000 I, Aluminum, 18 ... 90 V DC, 115 ... 230 V AC
- Mag 6000, Polyamid, 11 ... 30 V DC/11 ... 24 V AC
- Mag 6000, Polyamid, 115 ... 230 V AC
- Mag 5000, Polyamid, 11 ... 30 V DC/11 ... 24 V AC
- Mag 5000, Polyamid, 115 ... 230 V AC
- Mag 6000 CT, Polyamid, 115 ... 230 V AC

**Communication**

- None
- HART
- PROFIBUS PA Profile 3 (only Mag 6000/Mag 6000 I)
- PROFIBUS DP Profile 3 (only Mag 6000/Mag 6000 I)
- MODBUS RTU/RS 485 (only Mag 6000/Mag 6000 I)
- FOUNDATION Fieldbus H1 (only Mag 6000/ Mag 6000 I)

This device is shipped with a Quick Start guide and the SITRANS F manual containing the complete manual library. Printed Operating Instructions are available for purchase via PMD.

### Additional Information

#### Selection and Ordering data

<table>
<thead>
<tr>
<th>Description</th>
<th>Order code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor SITRANS F M MAG 5100 W</td>
<td>C14</td>
</tr>
<tr>
<td>Hastelloy electrodes, carbon steel flanges, EU water markets and low flow applications</td>
<td>C15</td>
</tr>
</tbody>
</table>

**Cable glands/terminal box**

- Metric/Polyamide terminal box or 6000 I compact
- 1/2" NPT/Polyamide terminal box or 6000 I compact
- Short lead time (details in PMD)

**Selection and Ordering data**

Please add “Z” to Order No. and specify Order code(s) and plain text.

**Additional Information**

- Factory certificate according to EN 10204-2.2
- Factory certificate according to EN 10204-2.1

**Approval/Verification**

- (MI-001 : DN 50-300, EPDM liner, EN 1092-1 PN10 & PN16 flanges with Mag 6000 CT)
- Without verification according to OIML 49
- M001 Q3/Q1 = 25
- M001 Q3/Q1 = 63
- M001 Q3/Q1 = 80
- M001 Q3/Q1 = 160
- M001 Q3/Q1 = 200
- M001 Q3/Q1 = 250
- Tag name plate, stainless steel fixed with SS wire (add plain text)
- Tag name plate, plastic (self-adhesive)
- Customer-specific converter setup
- Sensor cables wired (specify cable order no.)
- Sensor for remote transmitter’s junction box potted to IP68 with wired cable (specify cable order no.)

**Other postproduction requirements (add desired text)**

- Additional Calibrations
- Matched pair - (Standard production calibration where sensor and transmitter are calibrated together)
- Accredited Siemens Flow Instruments matched pair
- Calibration acc. to ISO/IEC 17025:2005
- Customer specified calibration up to 10 point
- Customer witnessed calibration
- Any of above calibration

1) Ordering On request as dedicated information from the customer on the individual sensors is required. Please fill in the calibration form found on p.khe.siemens.de/index.aspx?Nr=17460 and send together with the order.

**Description**

<table>
<thead>
<tr>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDK-08SU0220</td>
</tr>
</tbody>
</table>

- Short lead time (details in PMD)

- MAG 5000/6000 transmitters and sensors are packed in separate boxes, the final assembly takes place during installation at the customer’s place. MAG 6000 I transmitters and sensors are delivered compact mounted from factory.
- Communication module will be pre-mounted in the transmitter.
- Please use online Product selector to get latest updates.
- Product selector link: www.pia-selector.automation.siemens.com
- Please also see www.siemens.com/SITRANSFordering for practical examples of ordering.
SITRANS F flowmeters

SITRANS F M

Flow sensor MAG 5100 W

Sensor SITRANS F M MAG 5100 W
Hastelloy electrodes, carbon steel flanges,
Non EU water markets

Order code
7 ME 6 58 0 -

Diameter
DN 25 (1")
DN 40 (1½")
DN 50 (2")
DN 65 (2½")
DN 80 (3")
DN 100 (4")
DN 125 (5")
DN 150 (6")
DN 200 (8")
DN 250 (10")
DN 300 (12")
DN 350 (14")
DN 400 (16")
DN 450 (18")
DN 500 (20")
DN 600 (24")
DN 700 (28")
DN 750 (30")
DN 800 (32")
DN 900 (36")
DN 1000 (40")

Flange norm and pressure rating

to EN 1092-1
PN 6 (DN 1400 ... 2000 (54" ... 78"))
PN 10 (DN 200 ... 2000 (8" ... 78"))
PN 16 (DN 65 ... 600 (2½" ... 24"))
PN 16, non PED (DN 700 ... 1200/28" ... 48") (pending)
PN 40 (DN 25 ... 50 (1" ... 2"))
to ANSI B16.5
Class 150 (1" ... 24")
to AWWA C-207
Class D (28" ... 78")
to AS 4087
PN 16 (DN 50 ... 1200 (2" ... 48"))
to JIS
B 2220:2004 K10 (1" ... 24")

Flange material
Carbon steel flanges ASTM A 105

Liner material
Ebonite Hard Rubber

Electrode material
Hastelloy

This device is shipped with a Quick Start guide and the SITRANS F manual CD containing the complete manual library. Printed Operating instructions are available for purchase via PMD

Selection and Ordering data

Order No.

Sensor SITRANS F M MAG 5100 W
Hastelloy electrodes, carbon steel flanges,
Non EU water markets

Order code
7 ME 6 58 0 -

Transmitter with display
Sensor for remote transmitter (Order transmitter separately)

Order code
A
HART

Order code
B
PROFIBUS PA Profile 3 (only MAG 6000/ MAG 6000 I)

Order code
F
PROFIBUS DP Profile 3 (only MAG 6000/ MAG 6000 I)

Order code
G
MODBUS RTU/RS 485 (only MAG 6000/ MAG 6000 I)

Order code
E
FOUNDATION Fieldbus H1 (only MAG 6000/ MAG 6000 I)

Communication
No communication, add-on possible

Order code
A
HART

Order code
B
PROFIBUS PA Profile 3 (only MAG 6000/ MAG 6000 I)

Order code
F
PROFIBUS DP Profile 3 (only MAG 6000/ MAG 6000 I)

Order code
G
MODBUS RTU/RS 485 (only MAG 6000/ MAG 6000 I)

Order code
E
FOUNDATION Fieldbus H1 (only MAG 6000/ MAG 6000 I)

Cable glands/terminal box
Metric
1

Order code
W
1/2" NPT

Order code
2

Short lead time (details in PMD)

Selection and Ordering data

Order code

Customer-specific converter setup

Order code
C14
Factory certificate according to EN 10204-2.2

Order code
C15
Factory certificate according to EN 10204-2.1

Order code
Y17
Tag name plate, stainless steel fixed with SS wire

Order code
Y18
Tag name plate, plastic (self-adhesive)

Order code
Y20
Customer-specific converter setup

Order code
Y40
Sensor cables wired (specify cable order no.)

Order code
Y41
Sensor for remote transmitter’s junction box potted to IP68 with wired cable (specify cable order no.)

Order code
Y99
Other postproduction requirements (add desired text)

Description
Potting kit for terminal box of SITRANS F M sensors for IP68/NEMA 6P (Not for ATEX)

Order code
FDK-085U0220

Short lead time (details in PMD)

MAG 5000/6000 transmitters and sensors are packed in separate boxes, the final assembly takes place during installation at the customer’s place. MAG 6000/ MAG 6000 I ATEX 2G D transmitters and sensors are delivered compact mounted from factory. Communication module will not be pre-mounted in the transmitter.

Please use online Product selector to get latest updates.

Product selector link:
www.pia-selector.automation.siemens.com

Please also see www.siemens.com/SITRANSFordering for practical examples of ordering.
### Dimensional drawings

#### Nominal size

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<th>Order No. 7ME6580 Ebonite liner</th>
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¹⁾ PN 6 only in size DN 1400 ... DN 2000 (54" ... 78")

- not available

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## SITRANS F flowmeters

### SITRANS F M

**Flow sensor MAG 5100 W**

**Weight**

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- not available

With transmitter MAG 5000 and MAG 6000 compact, weight is increased by approximately 0.8 kg (1.8 lbs), with MAG 6000 I, weight is increased by 5.5 kg (12.1 lb).