# MS6

**SONIC-PRO® Chemical Feed Flow Meter**

## Features

- Inline pipe fittings for easy installation
- Isolated 4-20 mA output - fully configurable
- Process control via configurable solid state relay
- User configurable flow rate and total set-point triggers
- True unions for ease of maintenance

## Highlights

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flow rate</strong></td>
<td>10 - 10,000 mL/min 1.58 - 158.5 GPH</td>
</tr>
<tr>
<td><strong>Pressures</strong></td>
<td>200 PSI (13.8 bar)</td>
</tr>
<tr>
<td><strong>Body material</strong></td>
<td>PVDF</td>
</tr>
<tr>
<td><strong>Pipe sizes</strong></td>
<td>½” Barb, ½” M/NPT, ½” PVC slip</td>
</tr>
<tr>
<td><strong>Display options</strong></td>
<td>Remote mount or meter mount</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>5 Years</td>
</tr>
</tbody>
</table>

For more help and information regarding MS6, please visit www.blue-white.com or scan this QR code.
Engineering Specifications

**General Operation**

**Compatible Fluid Types**
- Acoustically conductive fluids, particulate and bubbles with 50,000 ppm or less
- Water
- Aqueous Ammonia 10%
- Ammonium Hydroxide 30%
- Ferric Chloride 40%
- Sodium Bisulfite 40%
- Sodium Hypochlorite 12.5%
- Sodium Permanganate 40%
- Hydrofluorosilicic Acid 25%
- Ammonium Sulfate 10%

**Pre-Calibrated Chemical Profiles**
- Configurable 4-20ma, Pulse Output, Frequency Output, Solid State Relay Set-Point
- Monitor flow rate in real time
- Monitor total volume in real time
- Monitor meter diagnostics
- Field Upgradable Firmware
- Factory Resettable

**Blue-Central® Software:**
- Windows 10
- Mac (OSX 10.11/10.12/10.13)
- Configurable 4-20ma, Pulse Output, Frequency Output, Solid State Relay Set-Point
- Monitor flow rate in real time
- Monitor total volume in real time
- Monitor meter diagnostics
- Field Upgradable Firmware
- Factory Resettable
- USB-C (USB-A to USB-C cable included)

**Electronics / Hardware SPU(Signal Processing Unit):**

**Power Requirements** 5 VDC; 5 watts maximum

**Operating Temp.** 14 °F to 104 °F (-10 °C to 40 °C)

**Storage Temp.** -40 °F to 158 °F (-40 °C to 70 °C)

**Relative Humidity** 0% - 90%

**Volume Units** Independently configurable Rate and Total units in: U.S. Gallons, Liters, or Milliliters.

**Time Units** Selectable: seconds, minutes, hours, days.

**Flow Rate Averaging** Selectable: 1, 4, 8, 16, and 32 seconds.

**Data Outputs**
- Isolated 4-20 mA output - fully configurable
- 0-1,000 Hz Pulse output - fully configurable

**Display**
- Type: Liquid Crystal Display
- Backlight: White LED backlight

**Software Language** English

**Process Control**
- One Solid State Relay
- Load capacity: 24VDC, 100mA max (ex. supplied)
- Configure to flow rate for high/low/range rate trigger. Programmable release values enable auto release or manual latching operation.
- Configure to flow total for automatically triggered, timed batch operations for proportional feed applications.

**Power Supply (user configurable)**
- U.S. Transformer, 115VAC 60HZ / 15VDC, NEMA 5/15 plug
- Europe Transformer, 230VAC 50HZ / 15VDC, CEE 7/11 plug
- AU/ New Zealand Transformer, 240VAC 50HZ / 15VDC, AS 3112 plug
- U.K. Transformer, 230VAC 50Z / 15VDC, BS 1363/A plug

**Enclosure** NEMA 4X (IP66)

**RoHS Complaint** Yes

**Standards** NSF/ANSI

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**Dimensions**

<table>
<thead>
<tr>
<th>Dim</th>
<th>Inch</th>
<th>cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3.8&quot;</td>
<td>9.7</td>
</tr>
<tr>
<td>B</td>
<td>10.0&quot;</td>
<td>25.4</td>
</tr>
<tr>
<td>C</td>
<td>3.9&quot;</td>
<td>9.9</td>
</tr>
<tr>
<td>D</td>
<td>3.4&quot;</td>
<td>8.6</td>
</tr>
<tr>
<td>E</td>
<td>10.02&quot;</td>
<td>25.5</td>
</tr>
<tr>
<td>F</td>
<td>3.8&quot;</td>
<td>9.7</td>
</tr>
<tr>
<td>G</td>
<td>3.7&quot;</td>
<td>9.4</td>
</tr>
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</table>

Remote Mount Display Meter Body

Meter Mount Display Meter Body
Materials of Construction

Wetted Components:

Transducer: PEEK

Body: PVDF & PEEK

O-Rings: TFE/P (optional EP)

Fittings (Included):
- PVDF 1/2" I.D. Barb
- PVDF 1/2" I.D. Barb Elbow
- PVDF 1/2" M/NPT
- PVDF 1/2" M/NPT Elbow
- PVC 1/2" Slip

Performance

![Temperature vs Pressure Graph]

![MS-61 Accuracy Range Graph](indicating accuracies for 12.5% Sodium Hypochlorite and 25% Fluorosilicic acid)

![MS-62 Accuracy Range Graph](indicating accuracies for 12.5% Sodium Hypochlorite and Sodium Permanganate)
## Model Number Matrix

### Chemical Meter Model Number

<table>
<thead>
<tr>
<th>MS6</th>
<th>MS6 Chemical Feed Flow Meter</th>
</tr>
</thead>
</table>

#### Flow Range

<table>
<thead>
<tr>
<th></th>
<th>10-5000 mL/min (0.158-79.2 GPH)</th>
<th>100-10000 mL/min (1.58 -158.5 GPH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
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</table>

#### Display Options

<table>
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<tr>
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<th>Remote Mount Display</th>
<th>Meter Mount Display</th>
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<td>2</td>
<td></td>
<td></td>
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</table>

#### Elastometer Material (O-Ring)

- **V** TFE/P
- **E** EP

<table>
<thead>
<tr>
<th>MS6</th>
<th>1</th>
<th>1</th>
<th>V</th>
<th>X</th>
<th>Sample Model Number</th>
</tr>
</thead>
</table>

### Display Options

- **MS6** Remote Mount Display
- **MS6** Meter Mount Display