Series BFM Bulk Flow Monitor provides effective monitoring for most flow/no flow conditions in pipes and chutes. It’s sensing techniques, which use a Piezo element, makes the BFM versatile for most flow/no flow applications.

The BFM Control offers many unique advance features that exceed the industry standards. The BFM Central Processing Unit monitors movement of almost anything through a pipe or chute system. The BFM is ideal for sensing the presence or absence of materials in Pneumatic Conveying Systems. The BFM offers adjustable sensitivity depending on the application demand. Also, it provides easy installation and requires no maintenance. The unit has LED indicators - flow (green) / no flow (red).

The BFS-1 Sensor yields many advance features. It externally mounts to the outside of the pipe or chute. It provides mounting tabs for easy installation. The Sensor is prewired depending on the application demand. Also, it provides easy installation and requires no maintenance.

Series BFM has many practical applications. You can use it to monitor oil spray systems, discharge chutes, distributors, screw conveyors, drag conveyors, water systems, air systems, pneumatic systems, gravity feed systems, shurry systems, chemical processing, food processing and rotary drums.

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**Series CAM Compressed Air Meter**

The Series CAM Compressed Air Meter operates by the calorimetric measuring principle to detect the standard volume flow of operating compressed air. It is designed specifically to evaluate the current flow rate and the current consumed quantity in quick, accurate readout. The Series CAM is constructed of high-grade materials and is virtually maintenance free.

**Specifications**

- **Service:** Solids and liquids.
- **Power Requirement:** 120VAC, 220VAC or 12VDC.
- **Power Consumption:** 1 A.
- **Temperature Limits:** 120°F (48.9°C).
- **Output:** Relay, SPDT rated 4A @ 125/250VAC, 1/10 HP @ 125/250VAC, 3A @ 30VDC. TTL: 0-5 V.
- **Serial Communications:** RS-232.
- **Electrical Connection:** Screw terminal.
- **Conduit Connection:** Knockouts (four 3/4” for power, six 1/2” for sensor and outputs).
- **Enclosure Rating:** NEMA-4X (IP66).
- **Material:** Polycarbonate.
- **Weight:** 3 lb (1.36 kg).

**BFS Specifications**

- **Pipe Size:** 1/2” to 60” (1.27 to 152.4 cm).
- **Enclosure Rating:** NEMA-4X (IP66).
- **Electrical Connection:** 3´ (0.9 m) of 18 gauge wire.
- **Temperature Limits:** 155°F (68.3°C).
- **Materials:** PVC type 1 grade 1 grey.
- **Weight:** 5 oz (141.8 g).

**BFS-1 Specifications**

- **Weight:** 3 lb (1.36 kg).

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**Model Descriptions**

<table>
<thead>
<tr>
<th>Model</th>
<th>Control Unit: NEMA 4X (IP66), Polycarbonate Housing, 12VAC</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>BFM-1</td>
<td>Control Unit: NEMA 4X (IP66), Polycarbonate Housing, 12VDC</td>
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<td>BFM-2</td>
<td>Control Unit: NEMA 4X (IP66), Polycarbonate Housing, 12VDC</td>
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<td>BFM-3</td>
<td>Control Unit: NEMA 4X (IP66), Polycarbonate Housing, 12VDC</td>
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<td>BFS-1</td>
<td>Sensor</td>
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† Items are subject to Schedule B discounts.

**Dimensions**

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<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<tr>
<td>CAM-10</td>
<td>10-53/64 [275.3]</td>
<td>11-40/64 [300.04]</td>
<td>1/2 NPT [0.512]</td>
<td>0.1A</td>
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<tr>
<td>CAM-20</td>
<td>14-48/64 [375.05]</td>
<td>18-45/64 [457.06]</td>
<td>1 NPT [0.127]</td>
<td>0.1A</td>
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<td>CAM-30</td>
<td>18-45/64 [457.06]</td>
<td>18-45/64 [457.06]</td>
<td>1 NPT [0.127]</td>
<td>0.1A</td>
</tr>
</tbody>
</table>

**Call to Order**

3-15/16 [100.01]

3-1/32 C

3´ 18 AWG

WIRE

FLOW SENSOR

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**Series CAM Compressed Air Meter**

**Steady-State and Cumulative Totals PNP/4-20 mA Output**

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**Specifications**

- **Service:** Compressed air. Air quality (see chart).
- **Materials:** SS (304S15), ceramics, glass passivated, PEEK, polyester, fluoroelastomer, anodized aluminum.
- **Accuracy:** Class 1.4.1: ±3% of measured value +0.3% of full-scale value; Class 3.4.4: ±6% of measured value + 0.8% of full-scale value.
- **Response Time:** < 0.1 s.
- **Temperature Limit:** 32 to 140°F (0 to 60°C).
- **Pressure Limit:** 232 psig (16 bar).
- **Humidity Limit:** 90% RH.
- **Power Requirements:** 10-30 VDC.
- **Output Signal:** analog: 4-20 mA; digital: PNP open collector.
- **Loop Resistance:** 500 Ohm.
- **Current Consumption:** < 100 mA.
- **Electrical Connections:** 4 pin M12 (micro) cable connection.
- **Process Connections:** 1/2”, 3/4”, and 1”.
- **Display:** 4-digit alpha numeric red LED.
- **Enclosure Rating:** IP66 (NEMA 4X).
- **Mounting Orientation:** Vertical, horizontal, side with pipe length facing left.
- **Weight:** CAM-10: 12.5 lb; CAM-20: 2.35 lb; CAM-30: 4.16 lb.
- **Agency Approvals:** CE.