The DPM Particle Monitor and PMS Particulate Sensor combine to provide a basic baghouse and cartridge filter leak detector designed for general maintenance planning and process protection. It is easy to use and reliable. Leakage is gauged in real-time, on-the-spot, without prior baseline data and without signal tuning. Simply apply power and the general condition of the filter is quickly determined. An alarm point is set by simply moving an indicator up and down the gauge with the convenient, lockable key pad. For more precise alarm setup the large display provides both a logarithmic analog bar graph and an absolute digital readout. The log scale enables the user to observe both the baseline bleed through and the high peaks that are caused by filter cleaning cycles and developing leaks. Observation of both baseline and peaks is essential to setting proper alarms. The digital readout in absolute units ensures correct interpretation of the readings and provides accurate historical comparisons.

The DPM Particle Monitor is housed in a rugged cast aluminum enclosure. An LCD displays particulate levels in bar-graph and digital forms. A lockable membrane keypad is provided for setup and adjustment.

Together the DPM Particle Monitor and the PMS Particle Sensor:
• Prevent false readings from:
  - Moist and conductive dusts
  - Corrosive gases and condensate
  - Dust buildup
• For baghouses, cartridge filters, bin vents, and cyclones
• Protect downstream blowers, oxidizers, HEPAs, etc.
• Keep a clean workplace and be a good neighbor

### SPECIFICATIONS

**Inputs:** From PMS sensor.

**Output Ratings:**
- Alarm relays: 2 form A (SPST) rated 5A @ 240V res. (must provide an 8A (maximum) fuse in series with relay load);
- Analog: 4 to 20 mA (option RC).

**Power Requirements:**
- 115 VAC 50/60Hz, 230 VAC 50/60Hz, or 24 VDC.
- Power Consumption: 6 watts max.

**Accuracy:**
- Standard: ±5% of range, Optional: ±1% of range.

**Display Resolution:**
- Standard: 5 pA; Optional: 0.5 pA.

**Memory Backup:**
- For set point storage only.

**Temperature Limits:**
- -13 to 160°F (-25 to 70°C).

**Weight:**
- 4.5 lb (2.0 kg)

**Enclosure:**
- Cast aluminum, weatherproof, NEMA 4X.

**Loop Power Supply (Isolated):**
- 17 VDC loop supply provided by DPM control unit for PMS sensor.

**Agency Approvals:**
- CE & CSA.*

### OPTION

Analog Output (4-20 mA), add -RC to the end of the model number . . . . . . . . . . . add $1189.00

*Items are subject to Schedule B discounts.

*DPM models listed intrinsically safe are to be used with corresponding intrinsically safe PMS models making an intrinsically safe control loop. The PMS model can then be installed in a hazardous location according to approval ratings listed. The DPM itself is not intrinsically safe and must be installed outside the hazardous location.

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**Model & System Rating**

<table>
<thead>
<tr>
<th>Model</th>
<th>System Rating</th>
<th>Range</th>
<th>Input Power</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPM-A111</td>
<td>Weatherproof/NEMA 4X</td>
<td>5.0 pA - 5000 pA</td>
<td>115 VAC 50/60Hz</td>
<td>$2210.00</td>
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<tr>
<td>DPM-A112</td>
<td>Weatherproof/NEMA 4X</td>
<td>5.0 pA - 5000 pA</td>
<td>230 VAC 50/60Hz</td>
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<td>24 VDC</td>
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<td>DPM-A121</td>
<td>Weatherproof/NEMA 4X</td>
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<td>DPM-A122</td>
<td>Weatherproof/NEMA 4X</td>
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<td>230 VAC 50/60Hz</td>
<td>$3041.00</td>
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<td>24 VDC</td>
<td>$3489.00</td>
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<tr>
<td>DPM-AHZ111</td>
<td>Intrinsically Safe*</td>
<td>5.0 pA - 5000 pA</td>
<td>115 VAC 50/60Hz</td>
<td>$3363.00</td>
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<td>0.5 pA - 5000 pA</td>
<td>24 VDC</td>
<td>$4642.00</td>
</tr>
</tbody>
</table>

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