PARTICULATE TRANSMITTER
Digital Damping, Non-Stick Probe, For Broken Bag Detection

FEATURES/BENEFITS
• Simple 2-wire installation for PLC and control panels
• Non-stick PTFE coated probe to prevent false readings from moist and conductive
  dusts, condensate, and dust buildup
• Remote zero calibration helps to decrease maintenance time

APPLICATIONS
• Emissions monitoring
• Broken bag detection in dust collectors
• Filter leak or wear detection
• Bin vent monitoring

SERIES PMT2
The SERIES PMT2 Particulate Transmitter is designed to measure particulate emission
levels from dust collector discharge. Using DC coupled electrostatic induction sensing
technology, the transmitter monitors a pA current that is generated as particulate
passes near the probe; a 4 to 20 mA signal will vary based on the particulate level. The
PMT2 offers 6 sensitivity ranges allowing the user to choose the range that will best
fit the application. The range and test selector switch can also be set to output a 4 mA or
20 mA signal to assist with set up or trouble shooting. Averaging time setting can be
used to dampen the signal if desired.

SPECIFICATIONS
Service: Air and compatible gases, any type of particulate conductive or non-
conductive.
Wetted Materials: 316L SS, silicone, and PTFE.
Enclosure: Powder coated aluminum.
Accuracy: ±5% of reading.
Particulate Size: 0.3 microns and higher.
Detection Range: 5 to 5000 pA (6 selectable range options).
Temperature Limits: Ambient: -40 to 145°F (-40 to 63°C); Process: -40 to 248°F
(-40 to 120°C).
Pressure Limit: 30 psi (2 bar).
Output Signal: 4 to 20 mA.
Power Requirements: 12 to 28 VDC (W).
Electrical Connection: Two 1/2 female NPT electrical entries or two M20 electrical
entries (A2 suffix only).
Terminal Block: Removable (16 to 20 AWG wire).
Process Connection: See model chart. BSPT process connections are not UL
listed.
Probe Length: See model chart.
Enclosure Rating: UL Type 4 (IP66) ATEX/IECEx IP65.
Mounting Orientation: Any.
Averaging Time: 1 to 360 s (10 selectable options).
Weight: Varies with length of probe and type of mount.
Agency Approvals: CE, cULus; ATEX Compliant: Ex ia IIB T4 Ga.

STANDARD MODEL CHART

<table>
<thead>
<tr>
<th>Example</th>
<th>PMT2</th>
<th>PMT2-05-A-U2</th>
<th>Price</th>
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<tbody>
<tr>
<td>Series</td>
<td>PMT2</td>
<td>Particulate transmitter</td>
<td>$1185.00</td>
</tr>
<tr>
<td>Probe</td>
<td>-05</td>
<td>3” probe length</td>
<td>-</td>
</tr>
<tr>
<td>Length</td>
<td>-05</td>
<td>5” probe length</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>10” probe length</td>
<td>150.00</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>15” probe length</td>
<td>150.00</td>
</tr>
<tr>
<td></td>
<td>20</td>
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<td>30</td>
<td>30” probe length</td>
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<tr>
<td></td>
<td>36</td>
<td>36” probe length</td>
<td>300.00</td>
</tr>
<tr>
<td>Process</td>
<td>Connection</td>
<td>A</td>
<td>3/4” male NPT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B</td>
<td>1.5” tri-clamp kit with 1” male NPT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C</td>
<td>3/4” male BSPT</td>
</tr>
<tr>
<td>Enclosure Rating</td>
<td>A2</td>
<td>ATEX and IECEx (IS) UL (IS)*</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>U2</td>
<td>UL (IS)*</td>
<td>75.00</td>
</tr>
<tr>
<td>Options</td>
<td>ST</td>
<td>Stainless steel tag</td>
<td>27.75</td>
</tr>
<tr>
<td></td>
<td>M2</td>
<td>Female M20 electrical entries (female 1/2” NPT standard)</td>
<td>28.75</td>
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</table>

ACCESSORIES

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-PMT2-M20</td>
<td>1/2” NPT to M20 conduit adapter</td>
<td>$40.00</td>
</tr>
<tr>
<td>A-PMT2-FLG</td>
<td>2” flange with 3/4” NPT female connection, 316 SS</td>
<td>$300.00</td>
</tr>
</tbody>
</table>

*Options that do not have ATEX or IECEx.

Attention: Units without the A2 suffix are not Directive 2014/34/EC (ATEX) compliant.
These Units are not intended for use in potentially hazardous atmospheres in the EU. These units may be CE marked for other Directives of the EU.