The Series PMT Particulate Transmitter is a reliable dust collector emissions monitor and leak detector. The loop powered design is ideal for direct connection to existing PLCs or other baghouse diagnostic control systems. Adjustable linear or logarithmic output scaling enables trending both the baseline emissions and the high peak emissions that are caused by filter cleaning cycles and developing leaks. Observation of both baseline and peaks is essential to setting proper alarms.

The PMT Particulate Transmitter employs a field-proven combination of induction and protected-probe technologies. As particles flow near and around the probe, minute currents are dynamically induced into the probe. The signal is processed into an absolute output relative to the amount of particulate and thus leakage. Protective layers over the probe work in combination with induction-sensing to ensure reliable operation with all types of particulate including moist powders and highly conductive dusts. Maintenance is minimal and there is no need for an air purge.

### SPECIFICATIONS

**Service:** Air and compatible gases, any type particulate conductive or non-conductive.

**Wetted Materials:** 316 SS and PFA.

**Air Velocity Range:** 300 ft/min and higher.

**Minimum Detection:** Standard: 10.0 pA; Optional: 5.0 pA and 0.5 pA.

**Temperature Limits:**
- Ambient: -15 to 160°F (-25 to 70°C);
- Process: Standard: -40 to 250°F (-40 to 120°C);
  Optional: -40 to 450°F (-40 to 232°C).

**Pressure Limit:** 10 psi (0.69 bar).

**Power Requirement:** 18-28 VDC (24V nominal).

**Output Signal:** 4-20 mA.

**Loop Resistance:** 300 ohms maximum.

**Current Consumption:** Powered from 4-20 mA loop.

**Electrical Connection:** Terminal block.

**Process Connection:** See model chart.

**Enclosure Rating:** Weatherproof, NEMA 4X (IP 66).

**Mounting Orientation:** Any.

**Weight:** Varies with length of probe and type of mount.

**Agency Approvals:** CE, CSA.

### Example Series Designator

<table>
<thead>
<tr>
<th>Series Designator</th>
<th>Enclosure Rating</th>
<th>Process Connection</th>
<th>Maximum Process Temperature</th>
<th>Maximum Process Pressure</th>
<th>Range</th>
<th>Insertion Length (Recommended at Least 1/2 Duct Diameter)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMT</td>
<td>A1</td>
<td>1</td>
<td>T1</td>
<td>P1</td>
<td>L1.5</td>
<td>L15: 1.5 Probe, L03: 3&quot; Probe, L05: 5&quot; Probe, L10: 10&quot; Probe, L15: 15&quot; Probe, L20: 20&quot; Probe, L30: 30&quot; Probe, L36: 36&quot; Probe</td>
</tr>
<tr>
<td>PMT-A11T1P11-L1.5</td>
<td>A1</td>
<td>1</td>
<td>T1</td>
<td>P1</td>
<td>L1.5</td>
<td>PMT Particulate Transmitter (1-piece configuration, Sensor included in price)</td>
</tr>
<tr>
<td>PMT-A11T1P11-L1.5</td>
<td>AHZ2</td>
<td>1</td>
<td>T1</td>
<td>P1</td>
<td>L1.5</td>
<td>PMT Particulate Transmitter, Weatherproof/NEMA 4X, 1/2&quot; NPT Connection, 250°F Max Temp., 10.0 psi Max Pressure, 10.0 pA - 1.5&quot; Probe.</td>
</tr>
</tbody>
</table>

**Power Requirement:** 18-28 VDC (24V nominal).