

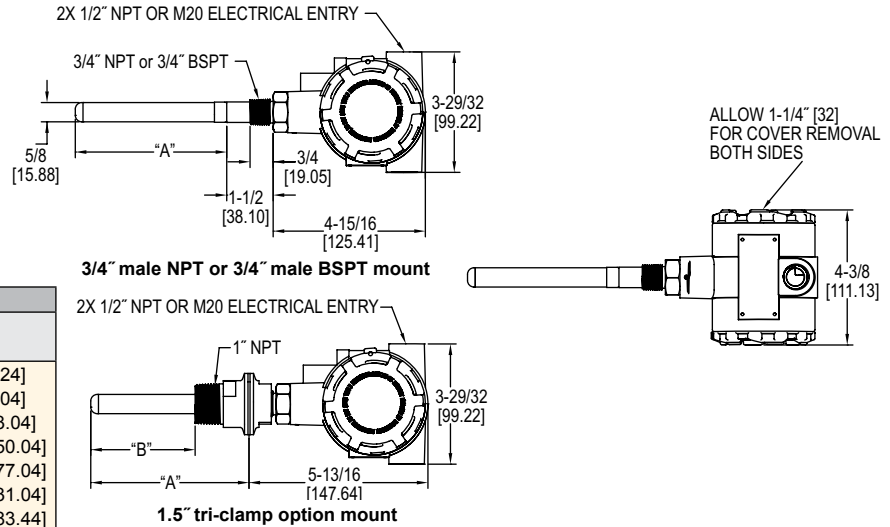
PARTICULATE TRANSMITTER

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



| THREADED MOUNT | |
|----------------|-------------|
| Probe Length | A in [mm] |
| 3" | 3 [76.20] |
| 5" | 5 [127.00] |
| 10" | 10 [254.00] |
| 15" | 15 [381.00] |
| 20" | 20 [508.00] |
| 30" | 30 [762.00] |
| 36" | 36 [914.40] |

| 1.5" TRI-CLAMP MOUNT | | |
|----------------------|-----------------|-------------------|
| Probe Length | A in [mm] | B in [mm] |
| 3" | 3-1/2 [88.90] | 1-25/32 [45.24] |
| 5" | 5-1/2 [139.70] | 3-25/32 [96.04] |
| 10" | 10-1/2 [266.70] | 8-25/32 [223.04] |
| 15" | 15-1/2 [393.70] | 13-25/32 [350.04] |
| 20" | 20-1/2 [520.70] | 18-25/32 [477.04] |
| 30" | 30-1/2 [744.70] | 28-25/32 [731.04] |
| 36" | 36-1/2 [927.10] | 34-25/32 [883.44] |



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 4-20 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.

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

MODEL CHART

| Example | PMT2 | -05 | -A | -U2 | PMT2-05-A-U2 |
|---------------------------|------|--|-------------|----------|--|
| Series | PMT2 | | | | Particulate transmitter |
| Probe Length | | 03 05 10 15 20 30 36 | | | 3" probe length 5" probe length 10" probe length 15" probe length 20" probe length 30" probe length 36" probe length |
| Process Connection | | | A B C | | 3/4" male NPT 1.5" tri-clamp kit with 1" male NPT 3/4" male BSPT |
| Enclosure Rating | | | | A2 U2 | ATEX and IECEx (IS) UL (IS)* |
| Options | | | | ST M2 | Stainless steel tag Female M20 electrical entries (female 1/2" NPT standard) |

*Options that do not have ATEX or IECEx.
Attention: Units without the A2 suffix are not Directive 2014/34/EU (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.

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: 4-20 mA.
Power Requirements: 12-28 VDC (≡).
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 Lengths: 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: CE 2813 Ex II 1 G Ex ia IIB T4 Ga (-40°C ≤ Tamb ≤ 63°C) (-40°C ≤ T_{Process} ≤ 120°C) / II 1 D Ex ia IIIC T120°C Da (-40°C ≤ Tamb ≤ 63°C) (-40°C ≤ T_{Process} ≤ 120°C). Type Certificate No.: DEMKO 16ATEX1768 X. ATEX Standards: EN 60079-0:2012/A11:2013; EN 60079-11:2012. IECEx Certified: Ex ia IIB T4 Ga (-40°C ≤ Tamb ≤ 63°C) (-40°C ≤ T_{Process} ≤ 120°C) / Ex ia IIIC T120°C Da (-40°C ≤ Tamb ≤ 63°C) (-40°C ≤ T_{Process} ≤ 120°C). Certificate of Conformity: IECEx UL 16.013X. IECEx Standards: IEC 60079-0: 2011; IEC 60079-11: 2011. UL Listed Intrinsically Safe for Class I, Groups C and D; Class II, Groups E, F and G; Class III; Class I Zone 0 AEx ia IIB T4 Ga; Class I Zone 0 Ex ia IIB T4 Ga.

ACCESSORIES

| Model | Description |
|-------------------|---|
| A-PMT2-FLG | 2" flange with 3/4" NPT female connection, 316 SS |
| A-PMT2-M20 | 1/2" NPT to M20 conduit adaptor |