

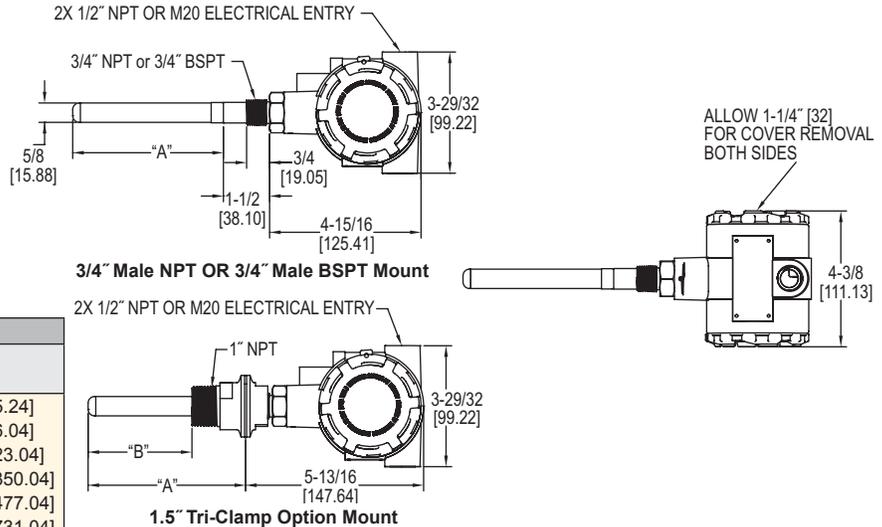
# PARTICULATE TRANSMITTER

## 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 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.

### 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			3" probe length
		05			5" probe length
		10			10" probe length
		15			15" probe length
		20			20" probe length
		30			30" probe length
Process Connection			A		3/4" male NPT
			B		1.5" tri-clamp kit with 1" male NPT
			C		3/4" male BSPT
Enclosure Rating			A2		ATEX and IECEx (IS)
			U2		UL (IS)*
Options				ST	Stainless steel tag
				M2	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/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.

### 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 (---).

**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: C 0518 0 II 1 G Ex ia IIB T4 Ga (-40°C ≤ Tamb ≤ 63°C) (-40°C ≤ T<sub>Process</sub> ≤ 120°C) / II 1 D Ex ia IIIC T120°C Da (-40°C ≤ Tamb ≤ 63°C) (-40°C ≤ T<sub>Process</sub> ≤ 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<sub>Process</sub> ≤ 120°C) / Ex ia IIIC T120°C Da (-40°C ≤ Tamb ≤ 63°C) (-40°C ≤ T<sub>Process</sub> ≤ 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-M20	1/2" NPT to M20 conduit adaptor
A-PMT2-FLG	2" flange with 3/4" NPT female connection, 316 SS