

## SERIES PMT2 | DWYER PARTICULATE TRANSMITTER

### 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

### DESCRIPTION

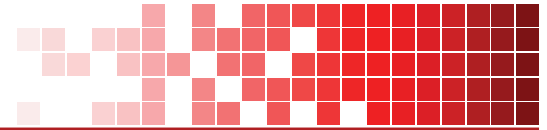
The **SERIES PMT2** Particulate Transmitter is designed to measure particulate emission levels from dust collector discharge. Using DC coupled electrostatic induction sensing technology, the transmitter monitors a pA current that is generated as particulate passes near the probe; a 4 to 20 mA signal 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

<b>Service</b>	Air and compatible gases, any type of particulate conductive or non-conductive.
<b>Wetted Materials</b>	316L SS, silicone, and PTFE.
<b>Enclosure</b>	Powder coated aluminum.
<b>Accuracy</b>	±5% of reading.
<b>Particulate Size</b>	0.3 microns and higher.
<b>Detection Range</b>	5 to 5000 pA (6 selectable range options).
<b>Temperature Limits</b>	Ambient: -40 to 145°F (-40 to 63°C); Process: -40 to 248°F (-40 to 120°C).
<b>Pressure Limit</b>	30 psi (2 bar).
<b>Minimum Air Velocity</b>	300 ft/min (1.52 m/s).
<b>Output Signal</b>	4 to 20 mA.
<b>Power Requirements</b>	12 to 28 VDC.
<b>Electrical Connection</b>	Two 1/2" female NPT conduit openings.
<b>Terminal Block</b>	Removable (16 to 20 AWG wire).
<b>Process Connection</b>	See model chart.
<b>Probe Lengths</b>	See model chart.
<b>Enclosure Rating</b>	Type 4 (IP66).
<b>Mounting Orientation</b>	Any.
<b>Averaging Time</b>	1 to 360 s (10 selectable options).
<b>Weight</b>	Varies with length of probe and type of mount.
<b>Agency Approvals</b>	CE, cULus; ATEX pending, IECEX pending. 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.

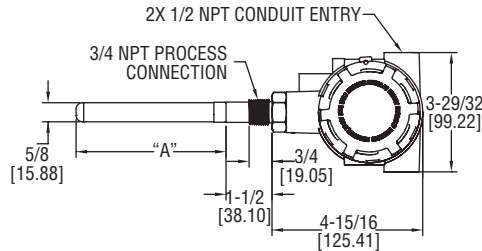




## DIMENSIONS

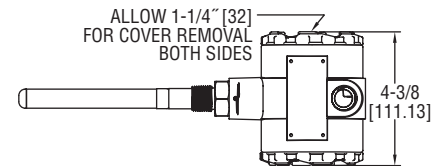
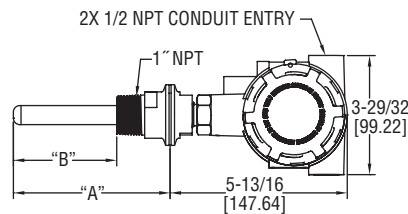
### 3/4" Male NPT Mount

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]

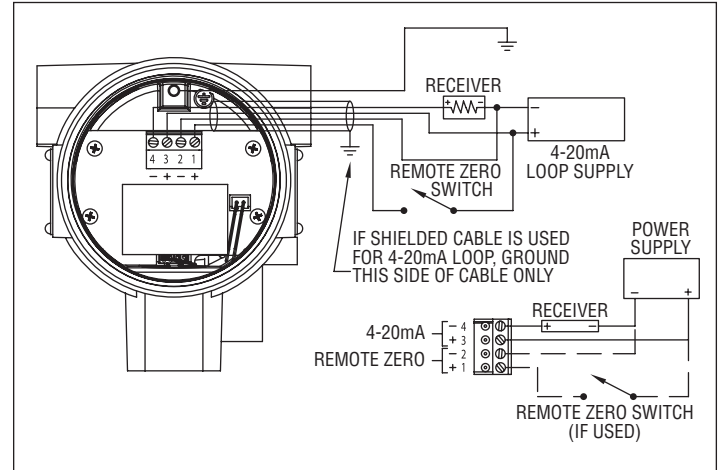


### 1.5" Tri-Clamp Option Mount

Probe Length	A	B
in [mm]	in [mm]	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]



## WIRING DIAGRAM



## HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

SERIES	PROBE LENGTH	PROCESS CONNECTION	ENCLOSURE RATING	OPTIONS
<b>PMT2</b> - Particulate transmitter	<b>-03</b> - 3" probe length <b>-05</b> - 5" probe length <b>-10</b> - 10" probe length <b>-15</b> - 15" probe length <b>-20</b> - 20" probe length <b>-30</b> - 30" probe length <b>-36</b> - 36" probe length	<b>-A</b> - 3/4" male NPT <b>-B</b> - 1.5" tri-clamp kit with 1" male NPT	<b>-U2</b> - UL (IS)	<b>-ST</b> - Stainless steel tag

## ACCESSORIES

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

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