



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

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).
Minimum Air Velocity	300 ft/min (1.52 m/s).
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: $CC = 0518 \otimes II = 1 \times GA = 0518 \otimes II = 1 \times GA = 0518 \otimes II = 0 \times GA = 0518 \otimes II = 0 \times GA = 0518 \otimes II = 0 \times GA = 0518 \otimes II =$



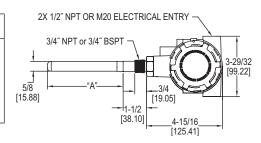




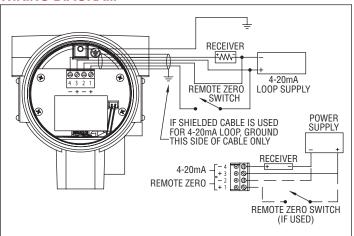
DIMENSIONS

3/4" Male NPT Mount

Probe	Α
Length	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]

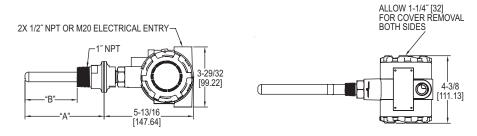


WIRING DIAGRAM



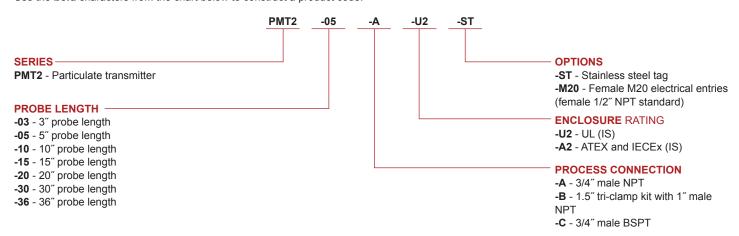
1.5" Tri-Clamp Option Mount

Probe	Α	В
Length	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]



HOW TO ORDER

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



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

Important Notice: Dwyer Instruments, Inc. reserves the right to make changes to or discontinue any product or service identified in this publication without notice. Dwyer advises its customers to obtain the latest version of the relevant information to verify, before placing any orders, that the information being relied upon is current.

