

Particulate Monitoring for Industrial Process

Precision Monitoring

- ✓ Early Alarms with Real Time Broken Bag Detection
- ✓ Easy Installation & Set Up
- ✓ Compact and Lightweight Design
- ✓ Peace of Mind with Power Up Self Checks
- ✓ Cost-Effective Solution for Entry Point Monitoring

The PM 1 sensor offers precise particulate detection for a wide range of industrial applications. Designed as our entry level easy-to-use broken bag detector, it is ideal for wide variety of dust collector applications. Engineered for reliability and ease of integration, the PM 1 provides real-time filter performance data, delivering accurate monitoring in diverse industrial environments.



Typical Applications

- Baghouses
- Filter Receivers
- Silo Bin Vents
- Cyclone Overflow

PM 1 Models



PM 1 - T **Trending Transmitter**

Ideal for leak detection and filter performance monitoring. Provides continuous 4-20 mA output direct to plant DCS or PLC via a 2-wire loop connection.



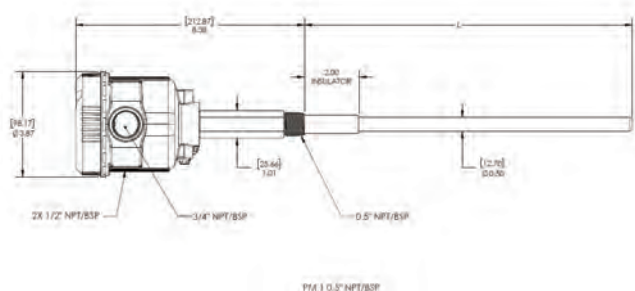
PM 1 - A **Alarm Notification**

Equipped with 2 user configurable relays to provide instantaneous notification of filter failure.

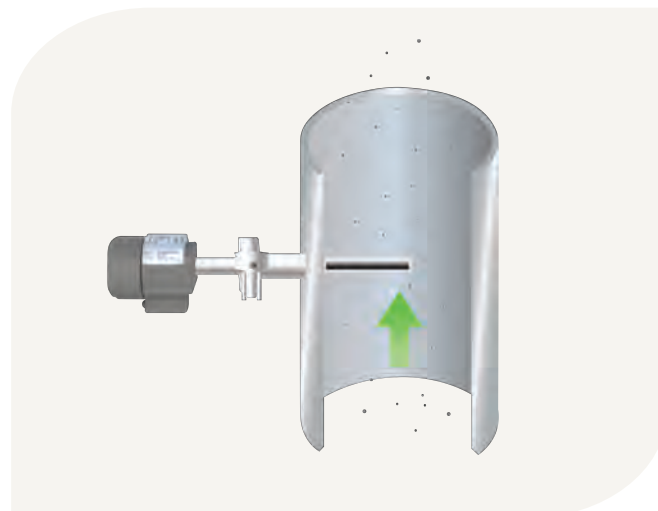
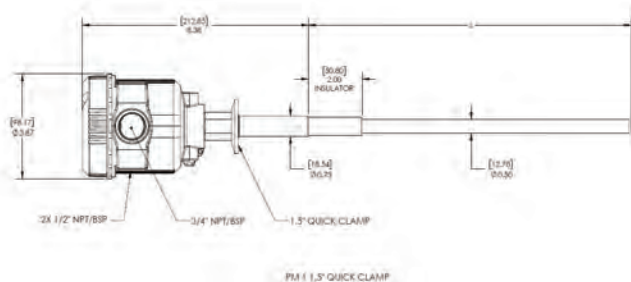
Principle of Operation

The PM 1 Series Particulate Monitors use induction sensing charge technology to detect particulates without direct probe contact. As particles pass by the sensor, they induce a charge, which is then converted into a measurable signal with high accuracy. This method accommodates larger sample sizes and is effective for a wide range of dust, including damp, sticky, and hazardous environments.

Threaded Version



Quick Clamp Version



Key Features

- Wide environmental range for versatile use
- Reliable across temperatures: -40°F to 500°F (-40°C to 260°C)
- Built-in power up self-check for sensor health
- Multi-language support
- Detachable electronics for easy maintenance
- Insulated sensor options ideal for sticky or damp particulate
- 4-20mA loop power option
- No complicated settings or auto-set features

PM 1 Technical Summary

General Technical	PM 1
Functions / # of Monitoring Points	Single-Function / Single-Point
Minimum Detection	0.1 mg/m ³
Power Supply	2-wire loop or universal line power
Discrete Output PM 1-A	(2) SPST 5A @ 250 VAC/30 VDC
Analog Output PM 1-T	(1) 4-20 mA
Ambient Temperature	-40 °F to 140 °F (-40°C to 60 °C)
Process Temperature (sensor)	-40 °F to 500 °F (-25 °C to 260 °C)
Process Pressure	10 PSI (0.69 bar)
Enclosure Rating	NEMA 4x/IP66
Hazardous Area Rating	Class II Div. II (Zone 22)



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Request a Consultation Now**

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