PM 1 PRO

Auburn
A Nederman Company

Particulate Monitoring for Industrial Process

Precision Monitoring

✔ Bag Leak Detection and Quantitative Measurement

✔ Maximize Performance with Minimal Downtime

✔ Easy Installation & Set Up

✔ Provides Reliable, Low-Maintenance Monitoring

✔ Peace of Mind with Continuous Self Checks

The PM 1 PRO provides precise, continuous measurements of low-level particulate matter. Compliant with EPA MACT, NESHAP, Title V/CAM, and meets international standards EN 15859, it's your ideal choice for maintaining regulatory compliance and optimizing operations.

Typical Applications

Provide robust and repeatable detection of particulate matter for:

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

Popular Features

Bluetooth® Connectivity

With Bluetooth® and a dedicated app, you can securely access real-time data and adjust settings remotely, eliminating the need to climb stacks. Manage your equipment safely from ground level, saving time and minimizing risks.

Self Health Checks

Automated self-checks continuously monitor sensor performance, ensuring optimal operation without the need for manual intervention. Early detection of issues helps reduce downtime and maintenance costs, keeping your system running efficiently.

User Friendly Interface

The advanced display provides real-time visualizations of particulate data, making monitoring and analysis easy. Its user-friendly interface allows quick access to essential information, enabling confident decision-making.

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Principle of Operation

The PM 1 PRO Particulate Monitors utilize induction sensing charge technology to detect particulates without direct contact with the probe. As particles move past the sensor, they generate a charge that is converted into a highly accurate measurable signal. This technology accommodates larger sample sizes and is effective across a wide range of dust types, including those found in damp, sticky, and hazardous environments.

Threaded Version

Quick Clamp Version

Flange Version
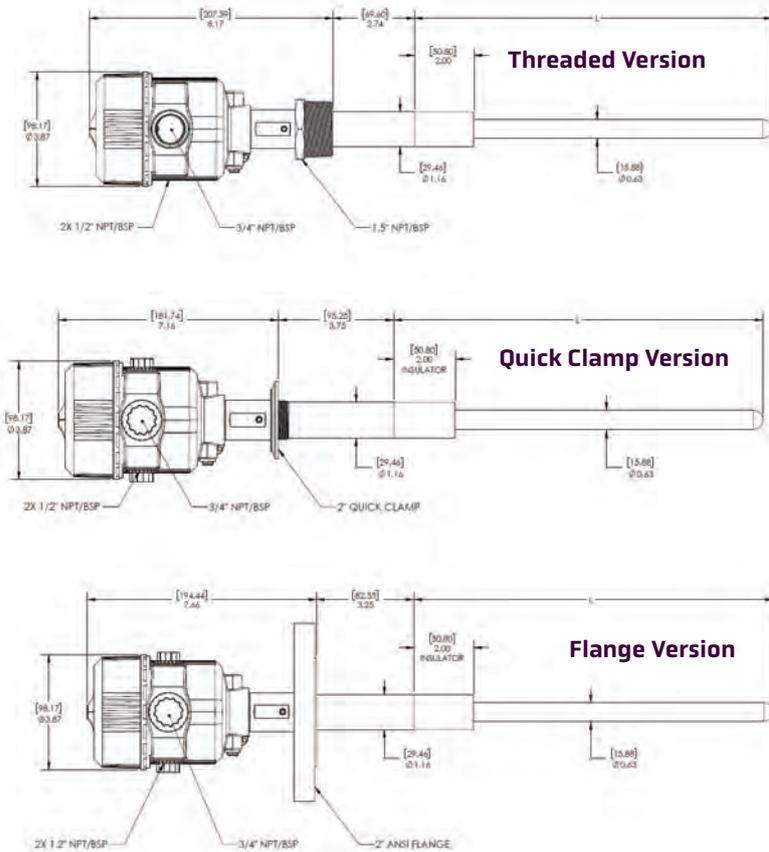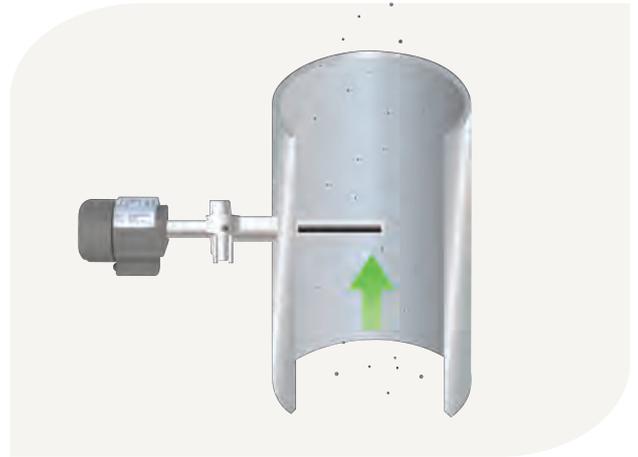
Key Features

- Reliable operation from -40°F to 500°F (-40°C to 260°C) and varying pressures
- Enhanced insight and efficiency through NAMUR 107 diagnostics
- EPA self-testing in accordance with ASTM D7392 for compliance with MACT, NESHAP, OSHA and International Standards
- Optional HART and Bluetooth® communication options
- Optional remote electronics with local dislpay for safe, easy access in high temperatures.
- Removable electronics module for quick maintenance
- Optional fully isolated probe for moist, corrosive, or conductive media
- Available as a 4-20mA loop-powered version for ease of integration

PM 1 PRO Technical Summary

General Technical	PM 1 PRO
Functions / # of Monitoring Points	Single-Function / Single-Point
Minimum Detection	0.1 mg/m³
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 ºF to 185 ºF (-40 ºC to 85 ºC)
Process Temperature (sensor)	-40 °F - 1650 °F (-40 °C - 898 °C)
Max Process Pressure	100 PSI (6.9 bar)
Enclosure Rating	NEMA 4x/IP66
Hazardous Area Rating	Class I Div. I (Zone 0/20)

Here's a look at the PM 1 PRO Remote model—
We offer configurations for most application requirements.

Configurable Graphical / Numeric HMI can be installed up to 300' (90m) from the sensor

Boost Your Business – Request a Consultation Now

Call us at +1 978.927.4304
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