

BABBITT

PM 1 & PM 1 PRO Dust Emissions Monitor & Leak Detector

Performance & Reliability
GUARANTEED

Simple • Safe • Reliable

PM 1 & PM 1 PRO SERIES

The PM 1 and PM 1 PRO are single-point/basic functionality dust particulate monitors, employing charge induction sensing for reliable continuous monitoring of dust particulate in stacks, ducts and pipes. Applications include filter leak detection, cyclone overflow and powder flow/no flow.

PRINCIPLE OF OPERATION

As particles flow near or around the electrically isolated sensing probe, a minute charge is continuously induced into the probe. This charge flows through a measurement circuit to ground. The induced charge signal is digitally analyzed and processed to provide an output that is reasonably linear to mass. The unit of measure is in picoamperes (pA).

PM 1

The PM 1 is the industry's best value in a basic dust particulate monitors and leak/flow detectors. The engineering and quality greatly exceed comparably priced devices. The PM 1's low cost justifies monitoring even small nuisance dust collectors.

PM 1 FEATURES:

- **DynaCHARGE Technology** - Superior reliability over other charge and tribo
- **Digital Readout, Lockable Keypad** - Simple text prompts (no trim pots or blind auto set)
- **Convenient Loop Check and Alarm Functions** - Speeds up and confirms installation

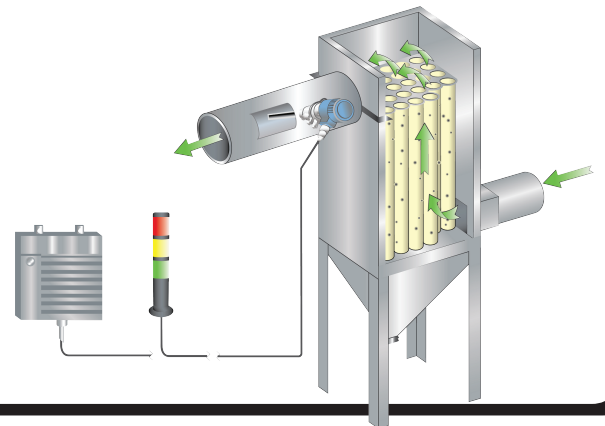
The PM 1 is available in two versions:

PM 1-A

- Basic particulate monitor with alarm relay outputs
- Integral electronics only

PM 1-T

- Basic particulate 4/20mA transmitter
- Integral electronics only



PM 1 & PM 1 PRO Dust Emissions Monitor & Leak Detector

PM-1 PRO

The PM 1-PRO is the benchmark for reliability and features when it comes to standard dust particulate monitors and leak/flow detectors. A state-of-the-art instrument, the PM 1 PRO is the first loop power particulate monitor with EPA certifiable self-tests and performance.

PM 1 PRO FEATURES:

- **Device Diagnostics (to NAMUR 107)** - Help ensure installation, proper operation
- **Automatic EPA Self-Tests** - Adhere to regulations, also for critical process
- **Performance and Design to EPA Standards** - Meets ASTM D7392 and EN 15859
- **Communication and Data Logging** -HART, USB, and basic internal data logging



The PM 1 PRO is available in three versions:

PM 1 PRO-A

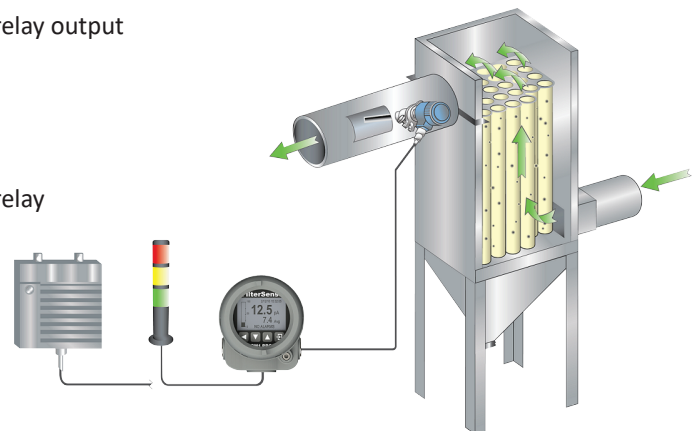
- Advanced, high-performance particulate monitor with alarm relay output
- Integral or remote electronics
- Graphical display/keypad

PM 1 PRO-AT

- Advanced, high-performance particulate monitor with alarm relay outputs and analog output
- Integral or remote electronics
- Graphical display/keypad

PM 1 PRO-T

- Advanced, high-performance particulate 4-20mA transmitter
- Integral or remote electronic
- Graphical display/keypad



Specifications:

	PM 1	PM 1 PRO
Power Supply	2-Wire Loop	2-Wire Loop or universal line
Processor/Display	Basic Monochrome	Basic LCD
Discrete Output	Up to 2 SPST 5A @ 24 VAC	Up to 2 SPST 5A @ 24 VAC
Analog Output	(1) 4/20mA Isolated	(1) 4/20mA Isolated
Analog & Discrete Outputs	None	None
Ambient Temperature	-13 F to 140 F (-25 C to 60 C)	-40 F to 158 F (-40 C to 70 C)
Process Temperature	-13 F to 500 F (-25 C to 260 C)	-40 F to 1598 F (-40 C to 870 C)
Sensor Process Pressure	50 PSI	2,000 PSI
Enclosure Rating *	NEMA 4X	NEMA 4X
Hazardous Area Rating**	Class II Div. II	Class I Div. I

*Explosion Proof Available

** Pending Approval as of 8/2019

Distributed by:

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