

Broken Filter Bag Detector

Field / Wall Mounted Model : PM - 251



Protects **Personnel, Plant
& Assets**



**PROVEN TECHNOLOGY, TIME - TESTED, AND ECONOMICALLY PRICED DETECTORS.
IT MEASURES THE TRIBO-ELECTRIC EFFECT AND DETERMINES WHEN
PARTICLE EMISSION EXCEEDS THE ACCEPTABLE LEVELS**

TECHNOLOGY

Broken filter bag detectors finds applications in a wide variety of industries, where detection and control of dust levels is critical for the safety, maintenance, equipment operation, Plant efficiency and / or the environment.

It provides reliable and economical detection of leaks and filter failures in powder and bulk solids industries. Broken filter bag detectors PM - 251 has LED visual indications and a relay output to maximize its user - friendliness and automation capabilities. It incorporates a specially designed adjustable damping system that increases its response time and prevents false alarms.

SPECIAL FEATURES

- Field-proven tribo-electric technology ensures reliability, Direct sensing method
- Actual particulate measurement
- Adaptable, suitable for virtually all dust collectors
- Damping system to prevent false alarms
- Adjustable sensitivity, alarm level and time delay to suit wide variety of powders and bulk solids
- Robust & reliable
- Easy installation, low maintenance
- Wide range of duct sizes from 250 mm to 2 m
- Integral assembly of sensor and electronics in rugged housing

APPLICATIONS

Broken bag detectors designed specifically for broken bag detection and leaking filter detection in the exhaust duct of bag houses, or any other collector containing filters, which may break or wear out. It finds extensive applications in following industries

- Ferrous / Non-ferrous metals
- Pharmaceutical
- Mining and minerals
- Pulp / paper
- Processing
- Cement, chemical processing
- Foundries, utilities
- Food processing, carbon black

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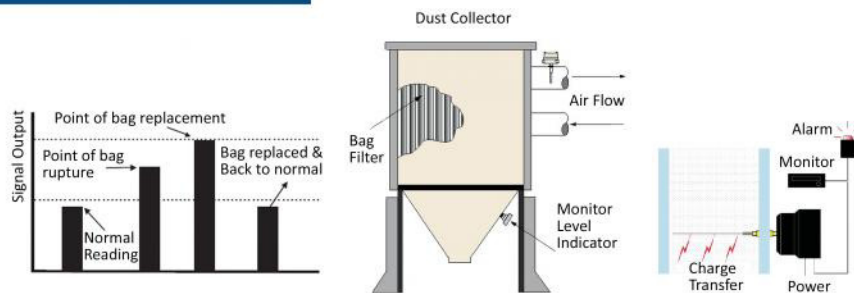
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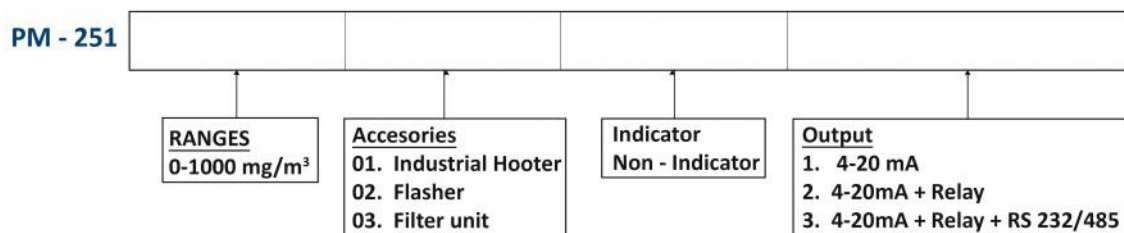
GRAPHICAL Representation



SPECIFICATIONS

Type	Field / wall mounted
Detectable gases / parameters	Particle flow / filter status
Electronics / processor	Micro-controller
Power supply	24V DC for sensor TX, 230 V AC / 50 Hz for alarm unit
Display	LED indicators on control unit
Alarm	Integral or remote visual alarm
Output	4 - 20 mA analog for transmitter & Relays
Sensor technology	Charge transfer
Range resolution	0-1,000 mg/m ³
Accuracy	± 2 %
Response time	Instantaneous
Operating temperature	upto 300°C for sensor probe and 0-55°C for TX & alarm unit
Sampling / input	Insitu
Housing / case	LM6 (EXP TX housing) + SS sensor + ABS Plastic for Alarm unit
Accessories	Relay, Industrial hooter, flasher, cable
Included accessories	N/A
Flue gas temperature	0-250 °C (upto 1000 °C Optional)
Duct width	50 mm to 2.2 m (preferable)
Positioning	90 °C to duct wall
Communications path length	Up to 1,000 meters
Socket	Single 1 flat flanged fitting
Mounting details	Dia 40 mm, Quick disconnect fitting with clamp and gasket
Probe MOC	316 Grade stainless steel
Sensor length	25, 100, 200, 500, 1000mm or customised
Insulation	PTFE (T Model - Glass ceramic)
Sensor diameter	10 mm
Alarm	Green - normal, Yellow - warning, Red - high alarm
Alarm delay	Adjustable up to 10 min
Averaging time	Programmable up to 1 Hour

ORDERING INFORMATION



Note : Specifications and Features will vary with application. There may be changes overtime due to continuous development process.
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