

Broken Filter Bag Detector

Field / Wall Mounted Model : PM - 251



Protects **Personnel, Plant
& Assets**

Timely detection of broken filter bags in a bag house results in prevention of product loss, contamination of production line & equipment damage. It controls pollution & emission.



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. For process flow applications, it is a reliable "Flow / No-flow" detector to monitor flow disruptions of dry solids in bulk handling & pneumatic conveying applications.

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, cartridge collectors, cyclones, and 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

HNL Systems Pvt. Ltd.

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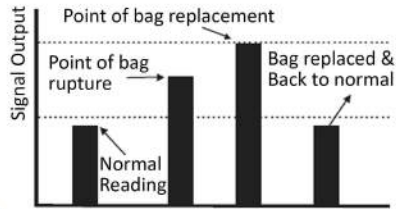
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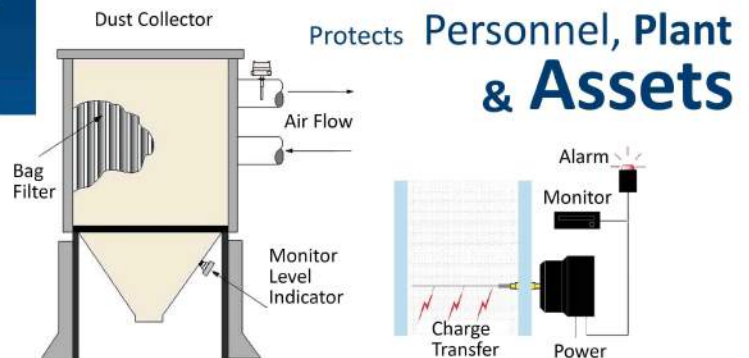
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GRAPHICAL Representation



SPECIFICATIONS



Protects Personnel, Plant & Assets

Type	Field / wall mounted
Features	Field-proven Tribo-electric technology, direct sensing method; Damping system to prevent false alarms, adjustable sensitivity, Robust & reliable, easy installation, low maintenance, wide range of duct sizes from 250 mm to 1 m.
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	Relay
Sensor technology	Tribo-electric
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
Included accessories	N/A
Optional accessories	Industrial hooter, flasher, cable, sensor probe for high temp
Applications	Bag Filter Houses, filter units
Industries	Ferrous metals, cement, chemical processing, fly ash, Food processing, pharmaceutical, foundries

OTHER SPECIFICATIONS

Measurement	
Technique	Tribo - electric charge transfer
Flue gas temperature	0-250 °C (upto 1000 °C Optional)
Installation	
Duct width	50 mm to 2.2 m
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	
Construction	316 Grade stainless steel
Sensor length	25, 100, 200, 500, 1000mm or custmised
Insulation	PTFE (T Model - Glass ceramic)
Sensor diameter	10 mm
Alarm unit	Green - normal, Yellow - warning, Red - high alarm
Alarm delay & averaging time	Adjustable up to 10 min, Time: programmable up to 1 Hour

Note : Specifications and Features will vary with application. Due to HNL's commitment to research, design and product improvement, specifications are subject to change without notice.

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