

Field / Wall Mounted Solid Flow Monitor

Model : PM - 252



Protects **Personnel, Plant
& Assets**

HNL's field / wall mounted solid flow monitor PM - 252, a robust, reliable and accurate indicative monitor, complies with the national and international standard.



PROVEN TECHNOLOGY, TO MEASURE THE TRIBO-ELECTRIC EFFECT AND DETERMINE WHEN PARTICLE EMISSIONS EXCEEDS THE ACCEPTABLE LEVELS

TECHNOLOGY

HNL's Solid Flow Monitor PM-252 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.

Field / wall mounted Solid Flow Monitor PM-252 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 with direct sensing method ensures reliability.
- Actual particulate measurement
- Adaptable, suitable for almost 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

Solid flow monitor PM-252 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
- Fly ash, cement, chemical processing
- Foundries, utilities
- Food processing, carbon black

HNL Systems Pvt. Ltd.

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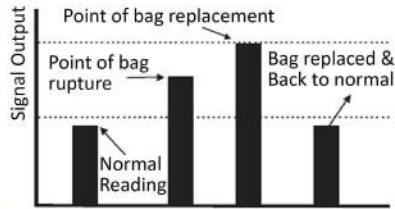
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Field / Wall Mounted Solid Flow Monitor

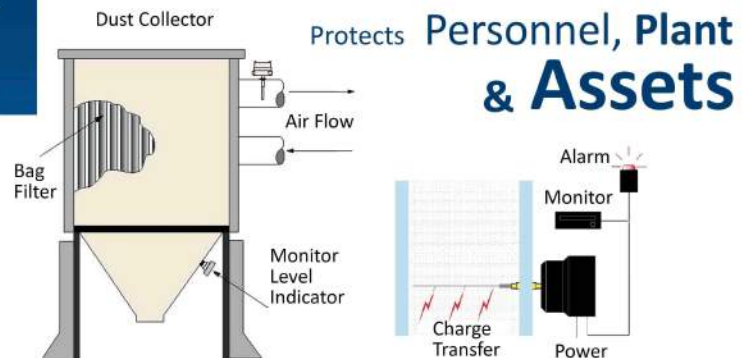
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GRAPHICAL Representation



SPECIFICATIONS



Type	Field / wall mounted
Features	Real-time insitu monitoring in stack, highly sensitive one point access, detects particles as small as 0.5 μm , no moving parts, economical, detects particulates from 1-1,000 mg/m ³ , flow / no - flow output in pipelines, transportation of powdered material
Detectable gases / parameters	SPM (suspended) dust
Electronics / processor	Micro-controller
Power supply	24 V DC for sensor TX, 230 V AC / 50 Hz for RC
Display	Graphic LCD on receiver controller unit
Alarm	Settable Low & High
Output	RS-232
Sensor technology	Tribo-electric
Range resolution	0-1,000 mg/m ³
Accuracy	$\pm 2\%$
Response time	Instantaneous
Operating temperature	upto 300°C for sensor probe and 0-55°C for TX & RC unit
Sampling / input	Insitu
Housing / case	LM6 (EXP TX housing) + SS sensor + ABS plastic for receiver
Included accessories	Datalogging, RS 485 for receiver, relay
Optional accessories	Indust.hooter, flasher, cable, purging, sensor probe for high temp
Applications	Solid flow monitor
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, 1000 mm 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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