



**CEM Solutions**  
Industrial Emissions Monitoring



**PFM 13 / PFM 02**

# What Are The Benefits of Particulate Filter Monitoring?

Monitoring of filter plants can be either indicative (highlights an error/change) or quantitative (gives specific values). It can be at a single point or as part of a multi-sensor system.

Optional evaluation software is available to provide a continuous overview of the performance of a Particulate Filter and, in the event of a failure, quickly determine its specific location.\*

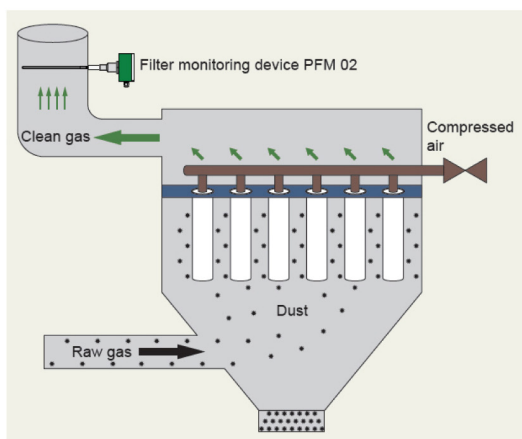
## Particulate Filter Monitoring Enables:

- Reduced plant down-time
- Early detection of failures
- Minimising loss of valuable product
- Improved environmental conditions
- Minimising 'nuisance' dust emissions

## Applications:

The PFM range of monitors have 5000+ installations worldwide and are suitable for use in a wide range of applications / industries:

- Quarries / minerals
- Metal recycling
- Bag filter plants
- Road-stone dryers
- Coating plants
- Cement industry
- Foundries
- Cartridge filter plants
- Sorting plants
- Centrifugal cyclones

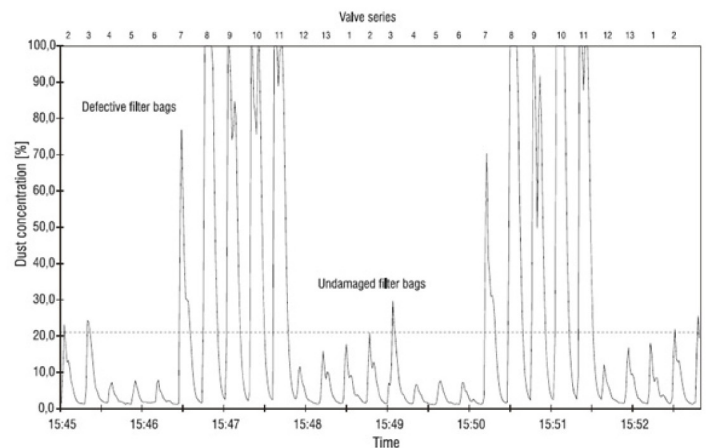


PFM installation point on a bag filter plant

## Further Benefits:

- Low initial outlay
- No consumables
- Optimised maintenance routines
- Optimised maintenance intervals
- Simple commissioning

\*Multiple sensors can be used to monitor separate compartments within a single filter plant.



Graph illustrating defective bags on a filter plant\*.

\*N.B. By use of multiple sensors it is possible to locate the exact source of faults on even the largest of plants.

## Further Information:

Contact us for more specific details on how your plant could realise the benefits of a Particulate Filter Monitor.

# Filter Monitor PFM 13

The PFM 13 is specifically designed to detect early failure of bag filter plants. This compact, cost effective probe either works individually to determine an overall fault, or can be coordinated as part of a multi-sensor system to localise faults in your process.

- Qualitative dust measurements
- Compact design
- Low service requirements



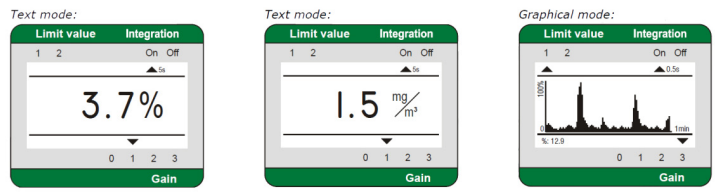
PFM 13 Display



# Filter Monitor PFM 02

The PFM 02 is designed to detect early failings of bag filter plants, as well as provide a calibrated dust measurement. The PFM 02 works on a large range of duct sizes either individually to determine an overall fault, or to co-ordinate as part of a multi-sensor system to localise faults in your process.

- Quantitative / calibrated dust measurement in mg/m<sup>3</sup>
- Graphical display for local diagnosis of system state
- Reduced bag filter maintenance costs



PFM 02 Display

## Technical Data PFM 13

Case	Compact device with integral control unit, IP65
Dimensions	100 x 120 x 530 / 730 mm (w x h x d), weight - 1kg
Measuring Range	0 - 100% Dust
Probe	Triboelectric probe
Display	Numerical display in probe head (optional; no display)
Gas Temperature	Maximum 280 °C (higher on request)
Ambient Temperature	- 20 to +50 °C
Flow Velocity	>3m/s
Analog Output	4-20 mA
Digital Signals	Limit value 1, limit value 2
Power Supply	+24V DC (via 4 - 20 mA loop)

## Technical Data PFM 02

Case	Compact device with integral control unit, IP65
Dimensions	160 x 160 x 510 / 710 mm (w x h x d), weight - 2.5kg
Measuring Range	Quantitative: 0-10 or 0-1000 mg/m <sup>3</sup>
Probe	Triboelectric probe
Display	Graphic display in probe head
Gas Temperature	Maximum 280 °C (higher on request)
Ambient Temperature	- 20 to +50 °C
Flow Velocity	>3m/s
Analog Output	4-20 mA
Digital Signals	Limit value 1, limit value 2
Power Supply	230/110V AC 50-60 Hz, 24V DC, 3VA

## ABOUT US

We have partnered with a highly respected German manufacturer to provide the best quality products. Our team of engineers has many years' experience in continuous emissions monitoring, system design & specification, high level customer support, installation, commissioning, servicing & repairs.



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