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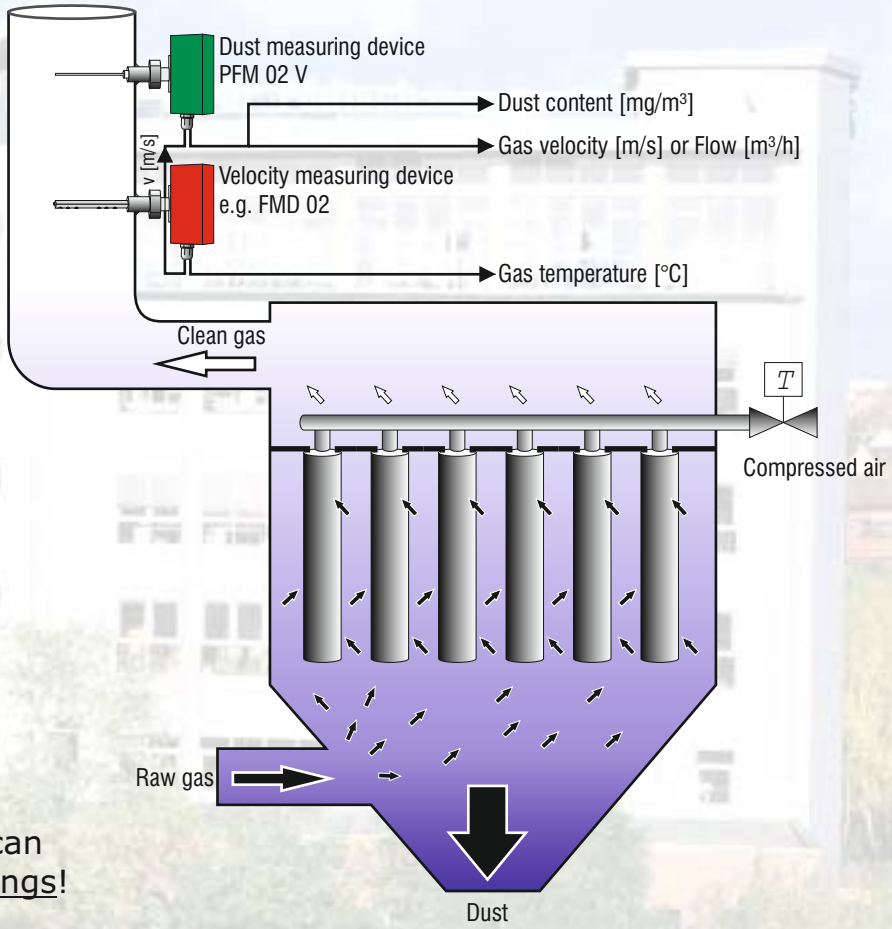
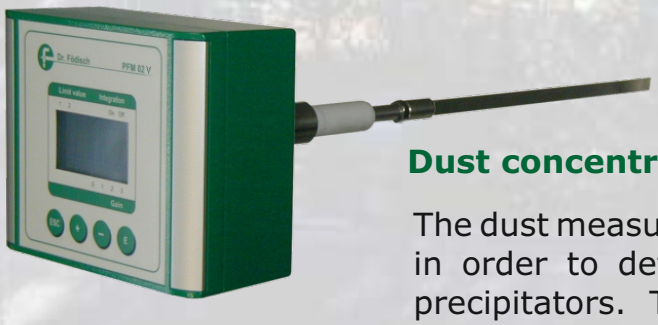
Product information PFM 02 V

In these days operating a modern filter facility can be rarely realised without the permanent control of its dust emissions. This is not only relevant for the responsible authorities but also for operators themselves getting profits from important advantages:

- ❑ Emission measurement and filter monitoring by means of only 1 device
- ❑ Avoidance of visible exhaust gas plumes
- ❑ Simplification of maintenance due to:
  - Early identification of beginning filter wearing
  - Localisation of defective filter elements
  - Possibility for determined maintenance works
- ❑ Avoidance of product losses
- ❑ Optional combination with Flow measuring device (e.g. FMD 02)

A suitable filter monitoring can result in <u>enormous cost savings</u>!





PFM 02 V

Dust concentration measurement device PFM 02 V

The dust measurement device PFM 02 V is a perfect device in order to determine effectively damages at filtering precipitators. The use of the triboelectric measuring principle (charge transfer at conducting surfaces) guarantees a device simply to install and handle as well as a timely monitoring of the dust emissions.

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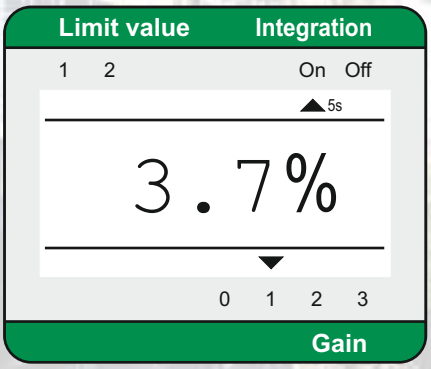
Highlights of the device:

- Compact system as unit of probe and control device, therefore easy installation
- Variable possibilities for application due to a probe rod adjustable to the conditions on customer's site
- On-site diagnosis of the facility's state due to a graphical display with high resolution showing an on-line diagram
- Option for presentation in mg/m³ by entering calibration parameters
- Optional consideration of the velocity's influence on the measurement by compensation with analog received measuring signals (separate velocity measurement) or input of replacement values
- Excellent cost effectiveness

General technical data

Case:	compact device (control unit is integrated)
Dimensions:	160 x 130 x 400 mm (W x H x D), weight 2,5 kg
Probe:	1 triboelectric probe with variable length (30 - 500 mm)
Measuring range:	0 ... 100 % to 0 ... 10 (1.000) mg/m³
Calibration:	by gravimetric comparison measurements (not necessary for tendency measurements and filter analysis)
Display:	Point matrix display with on-line line diagram:

Text mode:



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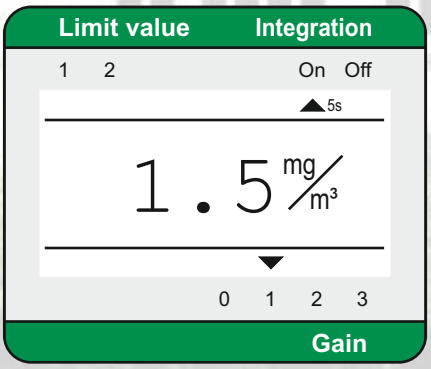
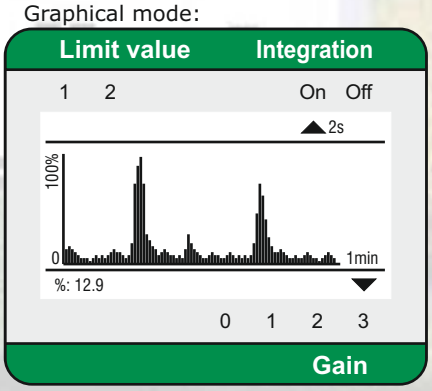


Graphical mode:



Gas temperature:	max. 280 °C (higher temperatures on request)
Ambient temperature:	-20 ... +50 °C
Dew point difference:	min. +5 K
Flow velocity:	from appr. 3 m/s
Analog outputs :	2 x 4 ... 20 mA (dust and velocity)
Analog input:	1 x 4 ... 20 mA or 12 Volt – transmitter connection
Digital signals:	failure/maintenance, limit value1 and 2
Power supply:	110 VAC, 230 VAC / 50 - 60 Hz, 24 VDC