



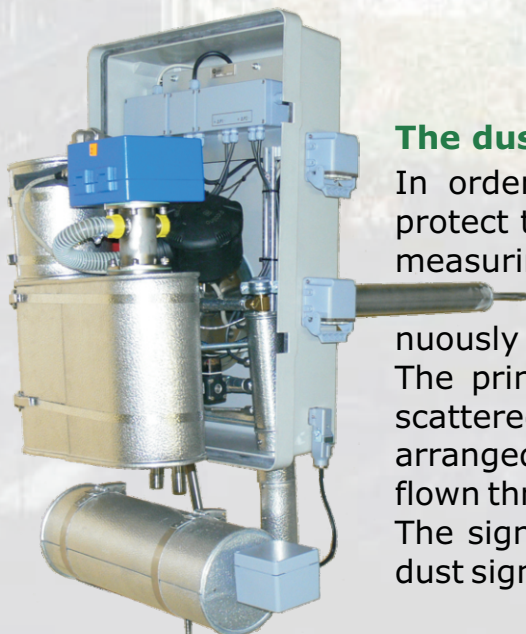
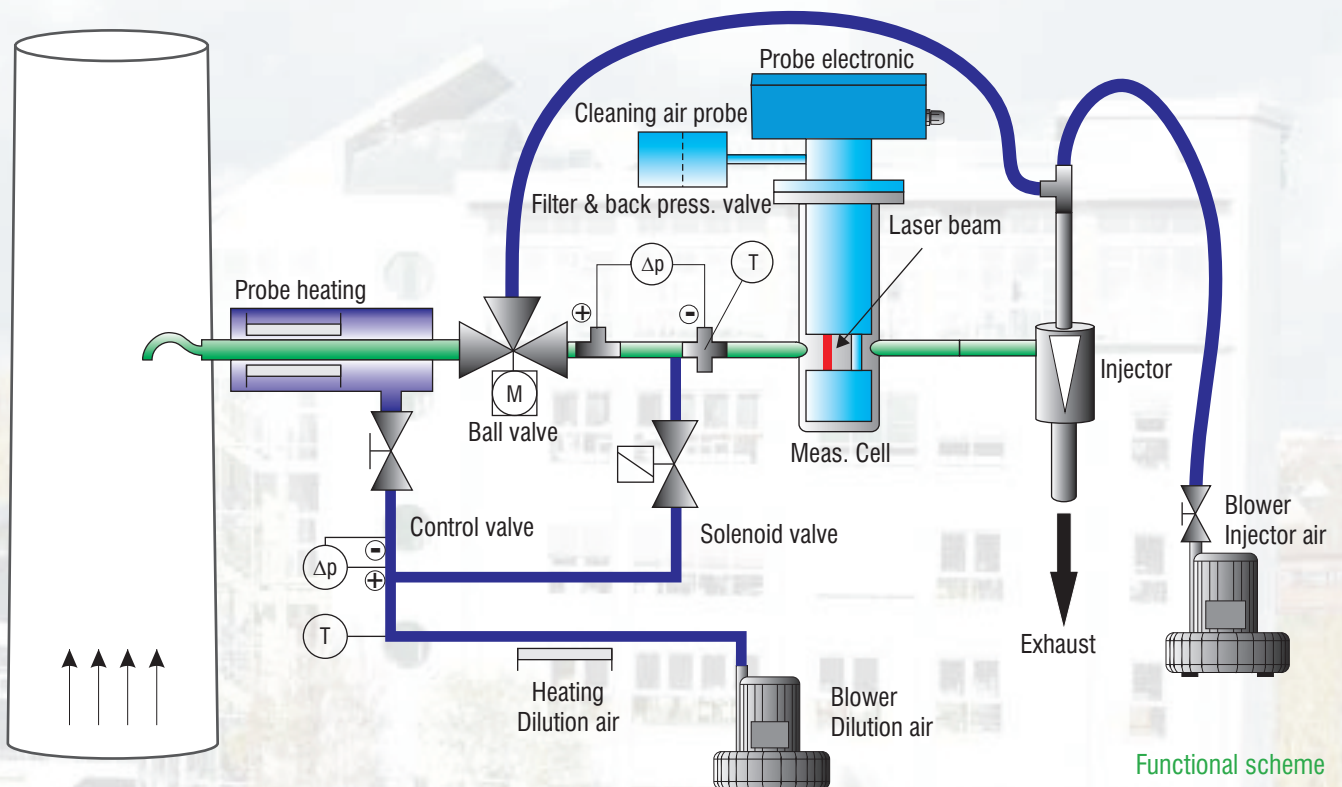
Dr. Födisch

Umweltmesstechnik AG

Zwenkauer Straße 159
D-04420 Markranstädt

Product information PFM 06 ED

The dust concentration measuring device PFM 06 ED is used for the continuous extractive measurement of dust contents in wet and sticky exhaust gases. Measuring gas is drawn off the process and led to the measuring cell via a probe being temperature controlled. Inside of the measuring cell there is an optic measuring unit.



Probe with optical unit

The dust concentration measuring device PFM 06 ED

In order to produce evaluable measuring signals and to protect the measuring cell respectively the gas paths of the measuring device the sucked-off measuring gas is conti-

nuously diluted with hot, dry and dust-free ambient air.

The principle of dust measurement is based on the optic scattered-light measurement. Therefore a laser lance unit is arranged in a cylindric chamber (measuring chamber) and flown through by the conditioned measuring gas.

The signal of the optic unit is converted into an equivalent dust signal in the electronic of the control unit.



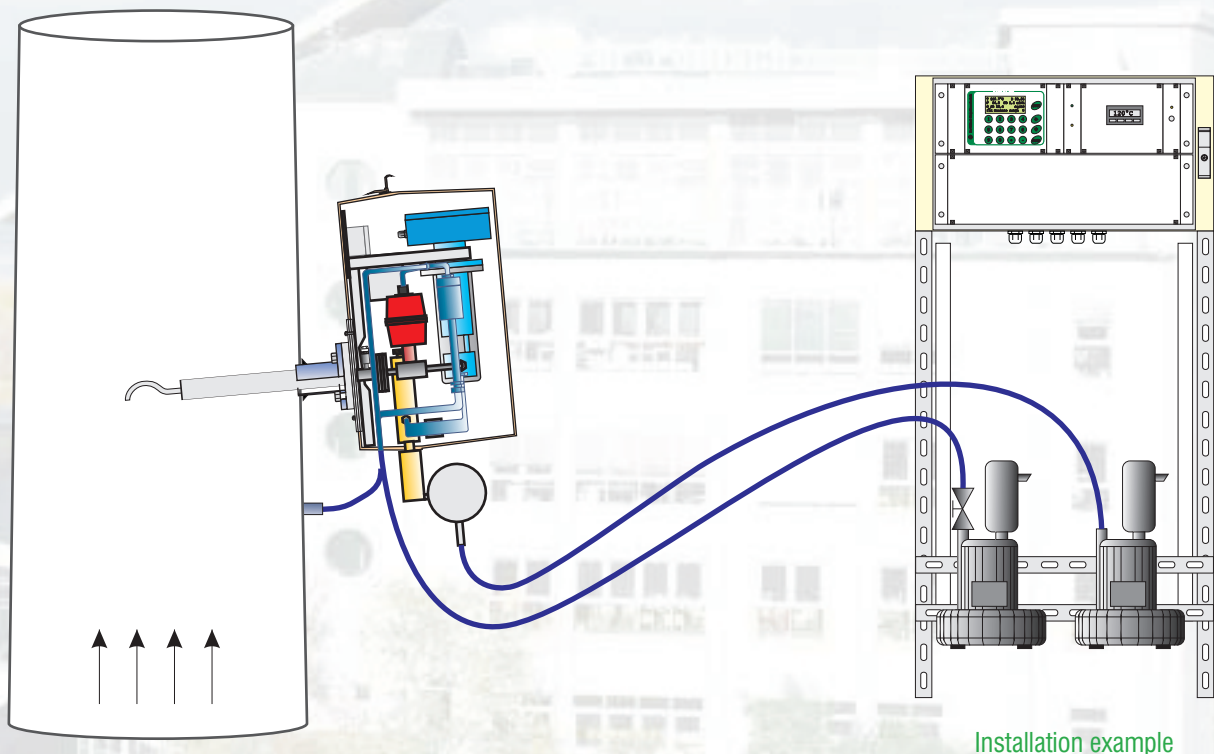
Dr. Födisch

Umweltmesstechnik AG

Zwenkauer Straße 159
D-04420 Markranstädt

Highlights of the device:

- Extractive dust measurement in wet and sticky exhaust gases
- Special device consisting of probe and control unit
- Relatively small demand for space
- Compact device, only 1 sampling point necessary
- Display option in mg/m^3 after input of calibration parameters
- Application in Ex-atmosphere possible
- Excellent price/performance ratio



General technical data

Control unit:	steel-sheet case mounted on profile rack (incl. blower)
probe:	Extraktive Probenahme mit GFK-Wetterschutzhaube
Messuring principle:	dust: optic scattered-light measurement via laser beam
Measuring range dust:	dust i.O.: 0 ... 15 (max. 500) mg/m^3
Calibration:	by gravimetric reference measurements
Display:	4-line LCD-display
Media temperature:	max. 280 °C (higher temperatures on request)
Ambient temperature:	-20 ... +50 °C
Flow velocity:	independent
Analogue outputs:	4 x 4 ... 20 mA (1 x dust and operational parameters)
Digital signals:	6 potential-free contacts (failure, maintenance, limit value 1 and 2 / maintenance request, measuring range)
Power supply:	400 VAC / 50 - 60 Hz