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The dust concentration measuring device PFM 06 ED is used for continuous extractive measurement of dust contents in wet and sticky exhaust gases. Thereby an isokinetic gas sampling is possible.

PFM 06 ED

Product Information

The device is suitability tested according to DIN EN 15267 and certified in compliance with QAL1.

Dust concentration measuring

For measurement the measuring gas is sampled from the process by a temperature-controlled probe and conveyed to a measuring cell which contains an optical measuring unit.

The sucked off measuring gas is continuously diluted and dried with hot and dust-free ambient air.

The active principle of dust measurement is based on the optical scattered light measurement. Therefore a laser lance unit is arranged in a cylindrical chamber (measuring cell) and streamed with the conditioned measuring air.

In the electronics of the control unit the signal of the optical unit is converted to an equivalent dust signal.





Functional scheme

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Installation example

Highlights of the device

- extractive dust measurement in wet and sticky exhaust
- special device consisting of probe and control unit
- relatively small required space
- compact device

 → only 1 sample fitting with integrated or separated return fitting necessary
- display option in mg/m³ by input of calibration parameters
- isokinetic sampling possible
- first-class price-performance ratio

Technical data

ctive sampling with GRP weather protection casing
nm x 750 mm x 1000 mm (w x n x d), approx. 65 kg, IP 55
D PN 6, special design: tube $arnothing$ 100 mm
optical dust measurement with laser beam (scattered light), extractive
. o.: 015 mg/m³ (max. 500 mg/m³)
avimetric comparison measurement
LC display
180 °C
umidity: 100%
+2 hPa
+50 °C
m³/h (sucked off measuring gas and dilution air)
, PE, 400 V AC 50 Hz, 4 kVA
20 mA, galvanically isolated with combined ground, burden max. 1 $k\Omega$
otential-free contact, max. 35 V UC, 0.4 A
nal, external switch contact for changeover of measuring/purging
2.5 mm²
EN 15267, QAL1, ID: 0000035014

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