Dr. Födisch
Umweltmesstechnik AG

Zwenkauer Strasse 159, D.04420 Markranstädt
T.: +49 34205-755-0 F.: +49 34205-755-40
www.foedisch.de sales@foedisch.de

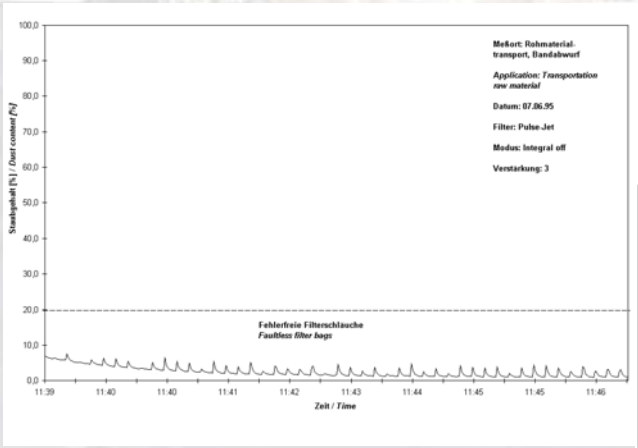
Product information
Mobile filter diagnosis device PFM 92 K

The filter diagnosis unit PFM 92 K serves the qualitative monitoring of dusty emissions. It is very often used for the fast registration of the clean gas content behind filters. The measuring principle is based on the triboelectric effect (charge transfer during collision of particles at conductive surfaces)
It is a perfect device in order to determine effectively damages at filtering precipitators (e.g. defective filter hoses or bags, non-active membrane valves, insufficient filter element fittings, not tightly closing poppet valves.

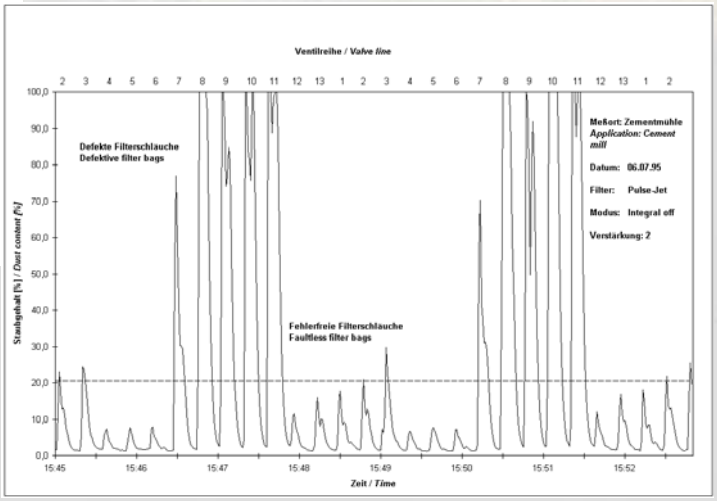
PFM 92 K

Characteristics and Function

The filter controller consists of an isolated probe, which is installed into the pure gas pipe. The charge transferred by contact and triboelectric processes is derived as current, transformed in the evaluation unit, amplified and supplied as standard signal 4... 20 mA. The measured values respectively the filter diagram are immediately shown and can be evaluated via the integrated electronic recorder.



◂ Application:bag filter with proper working filter bags



Application: bag filter with defective filter bags (row 7-11) ▸

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Highlights of the device:

› portable system, completely installed in a case
› immediate monitoring of pure gas dust content behind de-dusting facilities
› early identification of beginning filter wear, detection of defective filter elements
› Selective maintenance of the filter possible, therefore:
  - avoidance of product losses
  - prevention of visible exhaust gas plume
› low assembly efforts
› measuring probe with variable length for adaptation to local conditions
› 2 or 5 further analogue inputs available to connect additional measuring devices (e.g. for temperature or pressure measurement)
› comfortable measuring design by variable signal cable between probe and case

General technical data

Case:	portable device in aluminium case (incl. electronic recorder)
Dimensions:	470 x 360 x 200 mm (W x H x D), weight 10 kg
Probe:	1 probe of PFM 92-series with variable length (30 - 500 mm)
Measuring principle:	triboelectric sensor
Measuring range:	0,2 ... ca. 1000 mg/m³ (special measuring ranges on request)
Calibration:	by gravimetric reference measurements (not necessary for tendency measurements and filter analysis)
Display:	LCD-Display (0 ... 100 %) respectively electronic recorder
Media temperature:	max. 280 °C (higher temperatures on request)
Ambient temperature:	-20 ... +50 °C
Dew point difference:	min. +5 K
Flow velocity:	from ca. 7 m/s
Analogue signals:	1 norm signal 4 ... 20 mA (dust)
Power supply:	230 V / 50 Hz or 24 VDC
Collection:	electronic recorder with LCD screen, internal memory and disc drive