



Product information

Filter Controller PFM 92 C

Compact device for low-cost filter monitoring



This version of the filter controller has been designed especially for simple and low-cost dust emission monitoring behind dedusting facilities.

The output signal could be registered or displayed by conventional recorders, per PC with special evaluation software or per process control system owning by customers.

A particular profit of this device is the possibility to construct an operational monitoring system with minor expenditure.

Application and function

Measuring principle of the **PFM 92 C** is the triboelectrical effect.

The charge transferred by contact and triboelectrical processes as current is derived, transformed in the probe head, amplified and supplied as standard signal 4... 20 mA.

Benefits

The **PFM 92 C** is an optimum device for effective filter monitoring which provides:

- simple installation with minor expenditure
- almost free of maintenance requirement
- variable mains voltages 24 V; 230 V
- especially suited for set-up of complete operational control systems with many filters in connection with a special software for precise recognition of damaged filters (filter breaks, defective valves etc.)



The device possesses the following signaling contacts (openers):

- 2 freely adjustable limit values (0 - 100 %)
- 1 status contact for signaling of voltage failures

The output signal 4... 20 mA corresponds to a dust loading of 0...100 % of the adjusted measuring range.

4 measuring ranges are available in the relation 0,33; 1; 3,3; 10.

Technical Data

Power supply:	230 V AC, 50/60 Hz or 24 V DC
Power consumption:	5 W
Degree of protection (housing):	IP 65 according to DIN 40050
Permissible gas temperature:	max. 250 °C (higher on request)
Ambient temperature:	- 20....+ 50 °C
Dimensions of probe head:	80 x 175 x 65 (B x H x D)
Weight:	appr. 1 kg
Measuring range:	0,1 mg/m ³ to 1000 mg/m ³ depending on the type of dust and the properties of the carrier gas (higher concentrations on request)
Probe length:	100 - 500 mm, standard length: 300 mm
Signal contacts:	max. 250 V / 2,5 A
Elektromagnetic compatibility:	complies with EMV-directive 89/336/EEC and Low-voltage directive 73/23/EEC

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