

FILTER CONTROLLER MikroPul *Emtronic* Type 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 de-dusting facilities.

The output signal can be registered or displayed by conventional recorders, by a PC using special evaluation software or by a process control system owned by customers.

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

Application and function

Measuring principle of the **Filter Controller MikroPul Emtronic Type C** is the triboelectric effect. The charged transferred by contact and triboelectric processes is derived as current, transformed, amplified and supplied as standard signal 4...20 mA.

Benefits

The **Filter Controller MikroPul Emtronic Type C** is an optimum device for effective filter monitoring which offers:

- Simple installation with low expenditure
- Almost no demand for maintenance
- Variable mains voltages 24 V; 230 V
- Suitable for set-up of complete operational control systems consisting of many filters being connected to a special software for precise recognition of damaged filters (filter breaks, defective valves etc.)

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Technical Data

Power supply:	230 V AC, 50/60 Hz or 24 V DC
Power consumption:	5 W
Degree of protection:	IP 65 according to DIN 40050
Permissible gas temperature:	max. 250 °C (higher on request)
Ambient temperature:	-20....+65 °C
Dimensions of probe head:	80 x 175 x 65 (B x H x D)
Weight:	approx. 3 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 concentration on request)
Probe length:	100 – 500 mm, standard 300 mm
Signal contacts:	max. 250 V / 2,5 A
Electromagnetic compatibility:	complies with EMV-directive 89/336/EEC and Low-voltage directive 73/23/EEC

The device possesses the following signalling contacts (openers):

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

The output signal 4...20 mA reflects a dust load of 0...100 % of the adjusted measuring range. 4 measuring ranges are available in the relation 0,33; 1; 3,3; 10.