



ADOS[®]
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Instrumentation and Control



DUST FILTER MONITORING

Filter-Guard 206



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since 1997
DIN EN ISO 9001
ID: 0110071011



Application

Filter-Guard 206 continuously monitors the clean air side of any fine dust filter installations. A warning is initiated when a sudden increase in dust concentration is present, i.e. due to breakdown in the filter casing or bag.

Accessories

Signal horns, warning lamps, warning banners, air control accessories, metering units, plotters, data-logger.

Further accessories can be supplied on request, according to the proposed measurement tasks.

Fields of Application

- Monitoring filter systems
- Vibrating and jet filter systems
- Air extraction installations in wood and plastic processing plants
- Air conditioning units with dust filter systems
- Paint and varnish production
- Ambient air monitoring at workplaces
- and many more

Features

- Suitable for various types of dust
- 4–20 mA standard output signal
- LON[®] interface (optional)
- Low current consumption
- Robust aluminium housing
- Straightforward installation
- Easy exchange of the sensor elements

Detectable Types of Dusts

Dry dusts:

- Wood dust
- Household dust
- Colouring pigments
- Plastic dust
- Flour dust
- Metallic dust
- Mineral dust
- and many more

Evaluation Units

Multi-channel installations:

MWS 897
 MWS 903
 LON[®]-Center 2000
 GW 399
 Multitronik MC 602

Technical Data

| | |
|-----------------------------------|---|
| Measurement principle: | optical light dispersion |
| Fields of application: | filtermonitoring for dry, not sticking, not lumping, not hygroscopic substances |
| Measurement ranges: | 0–100 % dust approx. measurement range: total dust 0,1 – 20 mg/m ³ 0,1 – 50 mg/m ³ 0,1 – 100 mg/m ³ dependant on the kind of dust at the measuring point |
| Medium humidity: | dry |
| Measurement accuracy: | pure warning function, no metering unit |
| Ambient temperature: | -10 °C to +50 °C |
| Response time (t ₉₀): | < 10 s |
| Installation: | flexible flange for output air channel construction (flat and round channels) |
| Protection class: | IP 54 |
| Output signals: | analog output, 4 (0)–20 mA RS 485/LON [®] |
| Voltage supply: | 24 V= |
| Power consumption: | 3 VA |
| Dimensions (D x L): | 50 x 300 mm or 50 x 600 mm (long version) |
| Weight: | approx. 0,95 kg |
| Trademark right: | EU-patent |