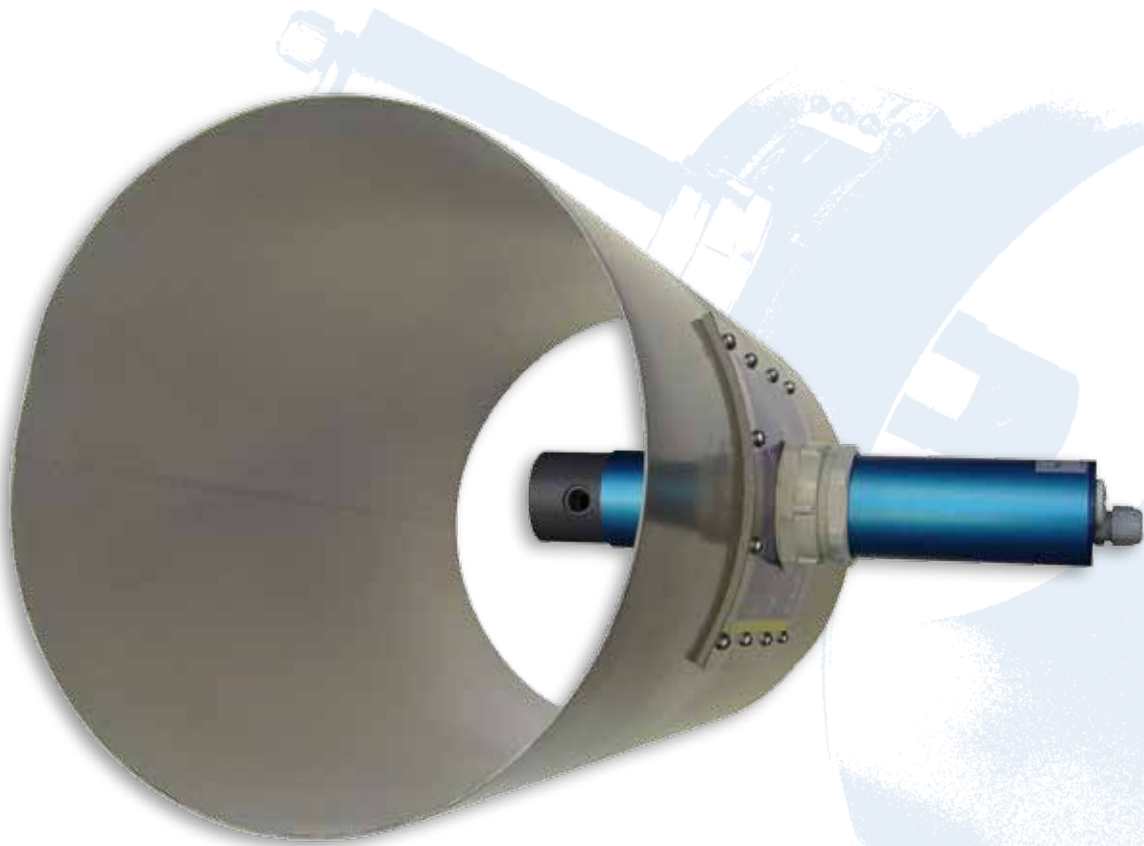




**DUST FILTER MONITORING**

# Filter-Guard 206



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## 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

## 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<br>approx. measurement range:<br>total dust<br>0.1–20 mg/m <sup>3</sup><br>0.1–50 mg/m <sup>3</sup><br>0.1–100 mg/m <sup>3</sup><br>dependant on the kind of dust at the measuring point |
| Medium humidity:                  | dry                                                                                                                                                                                                   |
| Measurement accuracy:             | pure warning function, no metering unit                                                                                                                                                               |
| Ambient temperature:              | 14 °F to 122 °F                                                                                                                                                                                       |
| Response time (t <sub>90</sub> ): | < 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<br>RS 485/LON <sup>®</sup>                                                                                                                                                 |
| Voltage supply:                   | 24 V/DC                                                                                                                                                                                               |
| Power consumption:                | 3 VA                                                                                                                                                                                                  |
| Dimensions (D x L):               | 1.97 x 11.81 inch or<br>1.97 x 23.62 inch (long version)                                                                                                                                              |
| Weight:                           | approx. 2.09 lbs                                                                                                                                                                                      |
| Trademark right:                  | EU-patent                                                                                                                                                                                             |

## Features

- Suitable for various types of dust
- 4–20 mA standard output signal
- LON<sup>®</sup> 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<sup>®</sup>-Center 2000  
GW 399  
Multitronik MC 602