## **Dust analyser**

# Model EasyPM





With the dust analyser EasyPM dust fractions for PM10, PM2.5, PM1 and TSP can be measured parallel with only one instrument.

The analyser is particularly suitable for application in indoor or outdoor air quality monitoring.

The analyser is available as 19" rack mount system, outdoor housing, or in combination with a CAMS (Compact Air Monitoring System) as smaller sensor unit integrtaed into the CAMS. All necessary equipment like, pump, heated sampling line, sampling head etc. is coming with the instrument

A number of possible options are to ensure the use of the analyser EasyPM for many applications.

#### **Highlights**

For parallel measuring of up to 4 particle fraction

Ranges in µg/m³ or mg/m³

RS232 interface

19" rack or table housing

Easy handling

Integrated pump

## **Optional**

Analogue Output: 0-10V

Alarm contacts



EasyPM in outdoor housing



#### **Product Specifications**

Measuring principle:

Like conventional optical particle counters, the optical particle counter (OPC) measures the light scattered by individual particles carried in a sample air stream through a laser beam. These measurements are used to determine the particle size (related to the intensity of light scattered via a calibration based on Mie scattering theory) and particle number concentration. Particle mass loadings- PM<sub>1</sub>, PM<sub>2.5</sub>,PM<sub>10</sub> and TSP are then calculated from the particle size spectra and concentration data, assuming a particle density and refractive index (RI). Default settings are: density 1.65 g/ml, RI 1.5+i0.

Respiratory profiles are included in the PM calculations

#### Technical data

Detection limits (PM<sub>10</sub>)

Particle range (µm) Spherical equivalent size 0.38 to 17

Size categorisation (standard) Number of software bins 16

Sampling interval (seconds) Histogram period (recommended) 1 to 10

Total Flow rate (typical) 1,2I/min

Sample flow rate (typical) 220ml/min

Max particle count rate Particles/ second 10,000

1500mg/m³Maximum

Coincidence probability % at 106 particles/ L 0.84
Output: 0.84
digital, RS 232

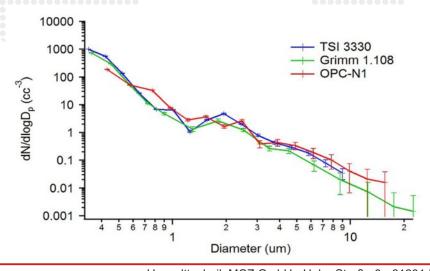
Analog, 0 ... 10V DC ( option)

Input voltage: 230V/50Hz or 115V/60Hz

Dimension: 19", 4HU, or weatherproofed outdoor housing 200x200x150mm

Weight, depending on application: approx. 2kg

Particle size derivate comparision



The OPC correlates well when validated with Grimm and TSI instruments.

0,01µg/m³ Minimum