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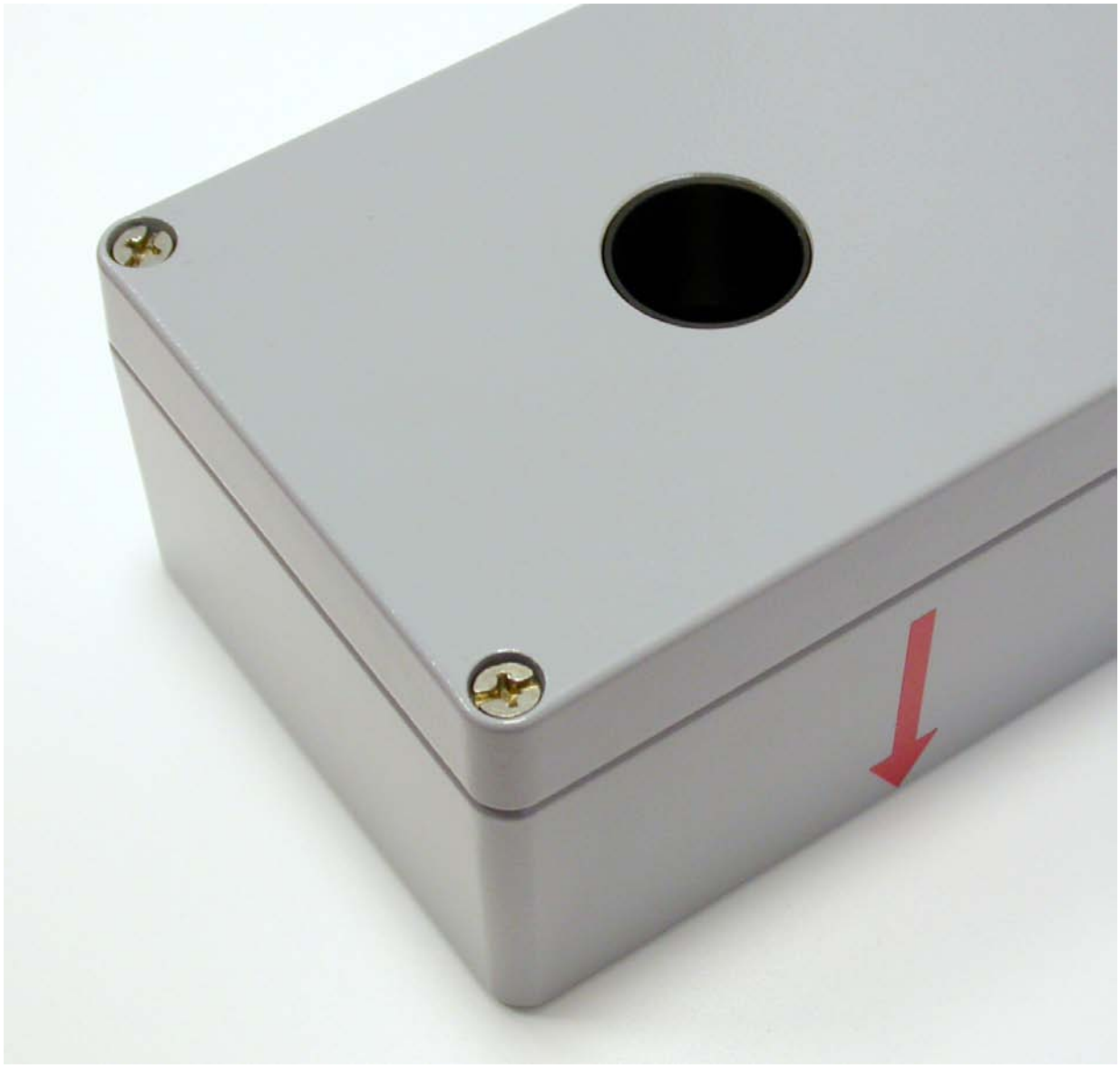
TM-F

Photometric Scattered-Light Sensor
for the Measurement of low Dust Concentrations



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Stationary Monitoring and Measurement of Dust Emissions

The scattered-light photometer TM-F is designed for the stationary measurement of lowest mass concentrations of airborne particles. Due to its high sensitivity, it is well suited for the measurement of residual concentrations behind filter systems, as highly sensitive smoke sensor or to measure the concentration of dust in processed air.

Connectors

Features and Benefits:

- Compact and robust design
- Easy to operate
- Low maintenance requirements (no pump)
- Low limit of detection: 5 µg/m³
- Adjustable limit alert
- Two measurement ranges (2 mg/m³, 20 mg/m³)
- Purge-air connector

Technical Data TM-F:

- Measuring ranges: 0 - 2 mg/m³, 0 - 20 mg/m³, switchable
- Factory calibration with DEHS aerosol, d = 1 µm
- Limit of detection: approx. 5 µg/m³ (DEHS aerosol, d = 1 µm)
- Limit can be set with potentiometer (0 - 100 %)
- Switching output: triggered by limit (230 V AC, 5 A)
- Current output: 4 - 20 mA
- Voltage output: 0 - 3.6 V
- Purge-air connector (particle-, oil- and water-free pressurized air)
- Purge air requirement: D = 2v (D: flow rate in l/min., v: sample gas velocity in m/s)
- Temperature range during measurement: 5 - 70 °C
- Supply voltage: 230 V AC, 50 Hz, approx. 8 VA
- Degree of protection: IP56
- Dimensions: approx. 320 x 120 x 80 mm³

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