

EDM 264 Stand-alone environmental dust monitor

For continuous outdoor measurements

- Reliable particle sizing and counting
- Easy installation
- Eco and Pro version to meet all requirements



31 equidistant size channels
 PSL traceable particle size distribution

- Long term stability and very low zero drift
 Due to rinse air for protecting laser and detector
- High-class data logger
 WLAN, LTE, remote access and real-time data analysis
- Meteorological sensor
 For P, T, RH, wind speed + direction and precipitation
- GPS position
 For high spatial and temporal resolution

Technical data

Sampling probe (standard)	μ-Sigma-2 inlet and heated sampling pipe
Detection principle	Light scattering at single particles with diode laser
Output	 TSP, PM10, PM4, PM2.5, PM1, PMcoarse and Total Counts Inhalable, thoracic, respirable, pm10, pm2.5 and pm1 Number concentration and size distribution GPS position, meteorological data
Particle size range	0.253 35.15 μm
Size channels	31, equidistant
Particle number	0 3 000 000 particles/liter
Dust mass	0 μg/m³ 100 mg/m³
Reproducibility	More than 95% at 500 nm meets ISO 21501-1
Time resolution	6 s, selectable storage intervals 6 s, 1, 5, 10, 15, 30 min, 1 h
Volume flow rate	1.2 l/min \pm 3% due to self regulation according to ISO 21501-1, automatic altitude correction up to 5000 m
Rinse air	0.4 l/min, protects laser optics, reference air for self-test
Power supply	85 264 VAC, 47 63 Hz or 12 VDC, e.g. via solar panel
Power input	P _{max} = 200 W, I _{max} : 1.4 A
Data interfaces	 Pro-Version: Data logger, WLAN, LTE; USB (type B), Ethernet (TCP-IP), USB-flash drive with GRIMM software Eco-Version: USB (type B), Ethernet (TCP-IP), USB-flash drive with GRIMM software

Benefits

Suitable for various applications

- Mobile PM monitoring
- Construction site monitoring, fugitive emissions
- Fence-line monitoring
- Source apportionment, forest fire detection
- All in one solution

Ready to use, rugged design

 Aerodynamic aerosol focusing
 Total inlet flow (1.2 l/min) analyzed in the optical cell, no border zone error

Cost saving Low maintenance

Optional accessory

Interchangeable sampling probe (SVC) with switchable catalytic stripper for SVC removal

Dimensions (I x w x h)	 Housing only: 44 x 45 x 21 cm (17.3 x 17.7 x 8.3 in) With meteo sensor and sampling probe: 73 x 51 x 23 cm (28.7 x 20.0 x 9.1 in)
Weight	 Housing only: 10 kg (22.0 lbs) With meteo sensor and sampling probe: 15 kg (33.1 lbs)
Operating conditions	–20 +40°C (–4 104°F), RH < 99%, non condensing, 533 1133 mbar
Transport and storage	−20 +50 °C (−4 122 °F) RH < 95 %
Accessories	 Configurable meteorological sensor 157L for temperature, relative humidity, barometric pressure 158L plus wind speed and wind direction 159L plus precipitation High-class data logger to upgrade Eco-Version Interchangeable sampling probe with catalytic stripper for SVC removal



