GRIMM

Environmental Dust Monitors

ENVIRO - EDM365

ISO 9001 certified

2011

www.GRIMM-aerosol.com

EXPERIENCE AND EXPERTISE
SINCE 1981

GRIMM EDM 365

Advantages

- ✓ Fully automatic
- ✓ Outdoor stainless steel housing
- ✓ Housing with auto ventilation and heating
- ✓ 3 different PM´s
- ✓ Auto dehumidification
- ✓ Particle size (opt.)
- ✓ Relative humidity
- ✓ Air temperature
- ✓ Air pressure
- ✓ GESYTEC protocol
- ✓ Data logger card
- ✓ RS-232 port
- ✓ Meteorology (opt.)
- ✓ TC values

Applications

- ✓ Enviro station
- ✓ Mobile PM monitoring
- ✓ Aerosol sizer
- ✓ Hot spot monitoring
- ✓ Source identification

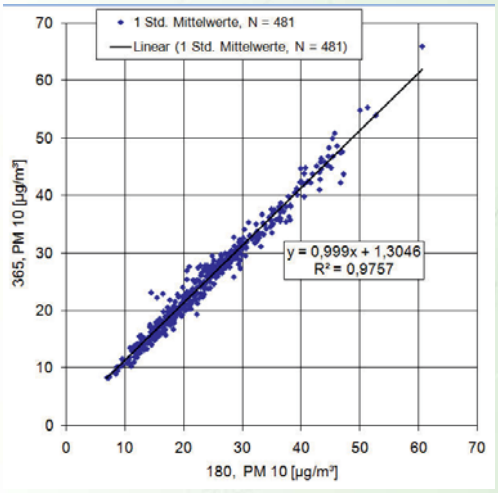
Construction Benefits

- ✓ Mobile housing
- ✓ No need for shelter
- ✓ All-in-one system
- ✓ Space for nano sensor
- ✓ Space for met. sensors
- ✓ Space for PAH sensor
- ✓ Not critical to vibration
- ✓ No radioactive source
- ✓ No loss of SVC
- ✓ Low maintenance
- ✓ Chemical analysis (opt.)
- ✓ Gravimetric analysis (opt.)

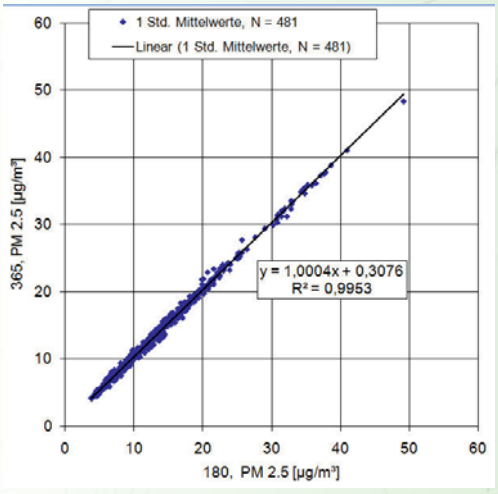
Mobile Stand-Alone Environmental Monitoring Station

For a simultaneous measuring of PM_{10}, $PM_{2.5}$ and Pm_1 (or TSP) in real-time plus - optionally - rel. humidity, temperature, wind speed, wind direction, precipitation and atm. pressure
All data are transferred online to the world wide web.

GRIMM sets a new trend: instead of big measurement containers with cost-intensive maintenance requirements, our units are small and compact while making no compromises regarding dust and meterological demands.
Our EDM 365 meets all demands and today, many of these stations are successfully operating in places all over the world and under the most adverse atmospheric conditions.
Starting in 2011 we will offer devices of the next generation with **additional gas sensors** to permit the measurements of airborne gaseous pollutants (such as VOC, NOx, ozone, and CO), for better chemical differentiation.



Correlation of two different GRIMM instruments



Specifications EDM 365:

Equivalent to our certified EDM 180 complying with: EN12341 & EN14907
US-EPA
GOST R
Measuring principle:
Laser light scattering
Measurement reporting modes:
EDM 365-C: PM_{10} and $PM_{2.5}$
EDM 365-CE: TSP and PM_{10}
EDM 365-D: PM_{10}, $PM_{2.5}$, PM_1 and TC
EDM 365-E: 31 size channels from 0.25 to >32 µm or PM_{10}, $PM_{2.5}$, PM_1 and TC
Particle concentration:
1 to 2,000,000 particles/liter
Dust mass: 0.1 to >6,000 $\mu g/m^3$
Sample flow: 72 l/h, flow-controlled
Dehumidification:
Automatic nafion dryer system
Reproducibility: 3 % in max. range
Power supply: 230 VAC, 50 Hz
(Optional: 110 VAC, 60 Hz)
Dimensions: 80 x 60 x 40 cm
Weight: 25 kg
Temp. range: - 25°C to + 50°C