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Hot-Spot Environmental Dust Monitor

GRIMM EDM 107

Portable Fine Dust Monitor for simultaneous measurement of PM_{10} , $PM_{2.5}$ and PM_1

Advantages

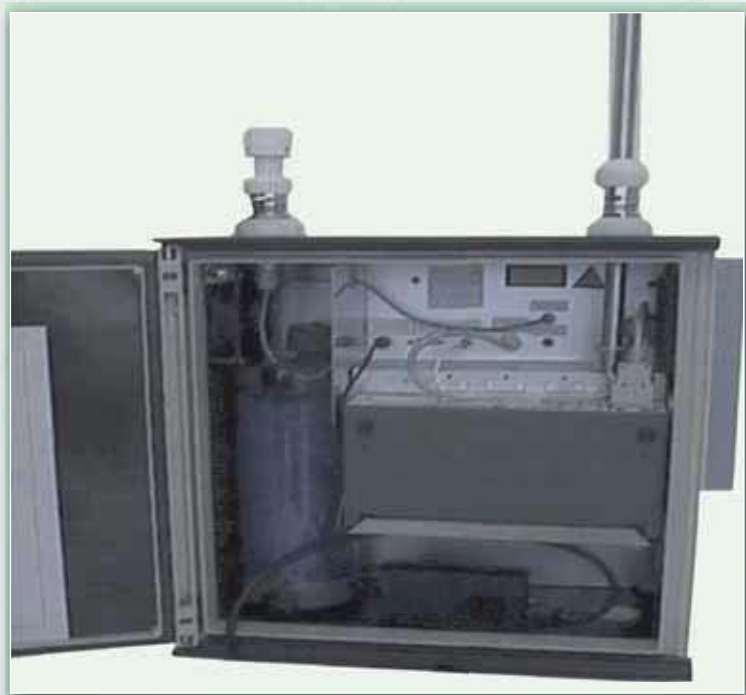
- ✓ Fully Automatic
- ✓ portable
- ✓ 3 different PMs
- ✓ Dehumidification (in #165)
- ✓ Particle Size (optional)
- ✓ Relative Humidity (optional)
- ✓ Air Temperature (optional)
- ✓ Air Pressure (optional)
- ✓ Data Logger Card
- ✓ RS-232
- ✓ Battery operated

Applications

- ✓ Mobile monitoring
- ✓ Hot spot monitoring
- ✓ Tunnel tester
- ✓ public site monitor
- ✓ Source identification

Handling Benefits of EDM 107

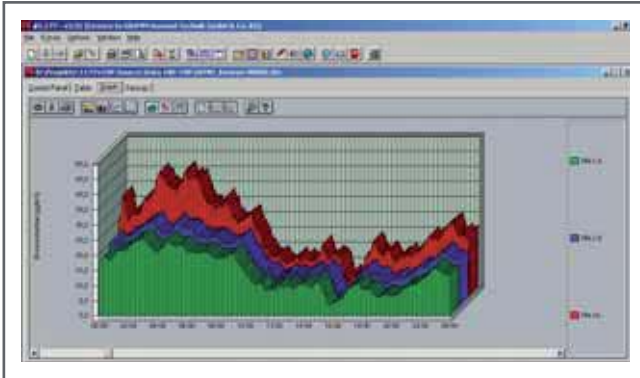
- Hand held unit
- Fits in outdoor housing
- Not critical to vibration
- No radioactive source
- No loss of SVC
- with 47mm Filter holder
- Low maintenance
- Only 2,5 kg



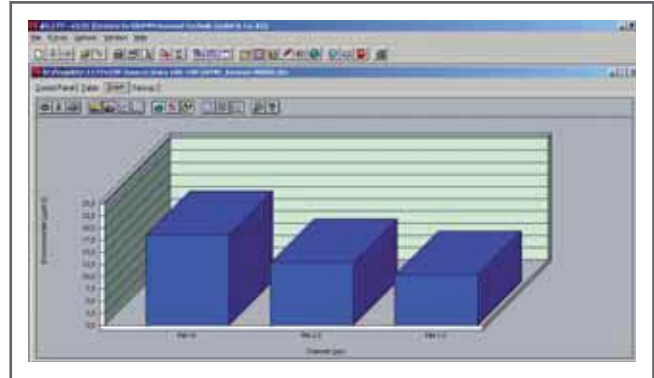
The Grimm EDM 107 is designed both for mobile and stationary use to measure PM_{10} , $PM_{2.5}$ and PM_1 simultaneously as a stand-alone measuring system. It is a small and light device for a multitude of applications.

Picture shows above the green EDM 107 and below in the outdoor housing #165.

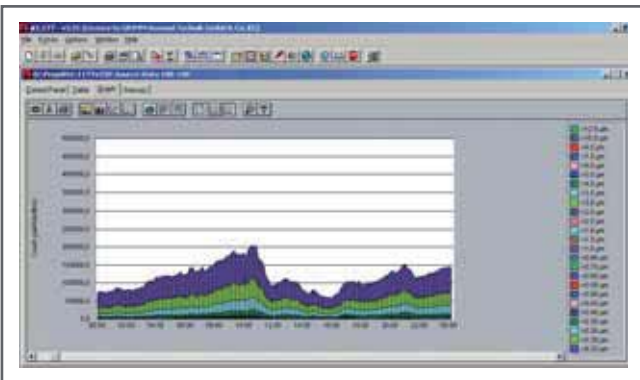
Environmental Data Presentation



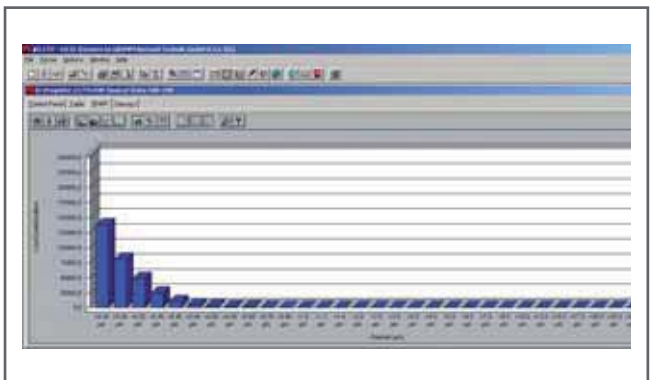
Graph shows the presentation of PM₁₀, PM_{2.5} and PM₁ mass obtained in **real time data over one day**.



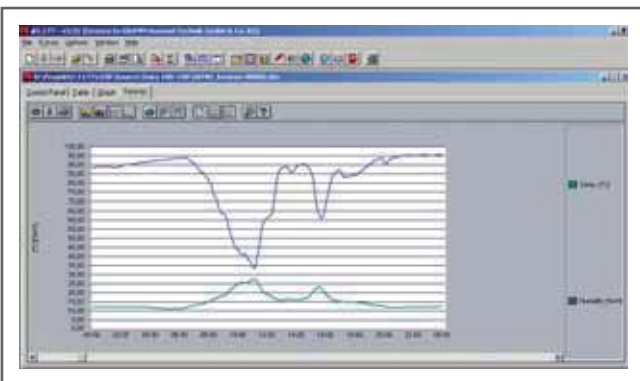
Graph shows the of the PM₁₀, PM_{2.5} and PM₁ **mean time mass over one day (for gravimetric comparisons)**.



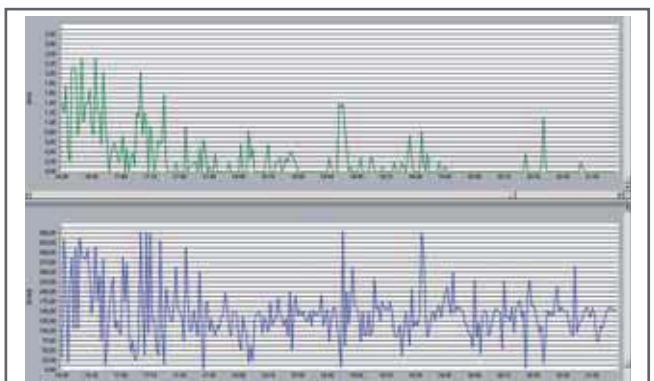
Graph shows the real time data presentation in counts of all **31 different size channels**.



Graph shows the mean time data presentation in counts of all **31 different size channels**.



Graph shows the meteorological data presentation of **temperature and humidity**.



Graph shows the **wind & rain presentation**.

Most of our units work in different **national networks** and they have our unit attached to their own presentation system (but not our Grimm #177 software)

It is also possible to show the **service data in real time**:

- The instrument performance
- Possible warning signals
- Error messages.

Specifications

Grimm EDM 107 Monitor

Measurement principle:	Light Scattering
Light Source:	Laser Diode
Measurement range:	from 0.25 to 32 microns
Concentration range:	from 1 to 2,000,000 Particles/litre
Size channels:	31 different ranges
Mass ranges:	PM ₁₀ and PM _{2.5} and PM ₁
Reproducibility:	3% in max. range
Mass results:	simultaneous and in real time
Data Presentation:	from 6 sec. to 1h
Sample flow:	1,2 litre/min.
Volume control:	automatic
Power supply:	18 VDC, but for 220V/110V
Temp. Range:	+ 4°C to + 40°C
Size	24 x 12 x 6cm
Total weight:	2,5 kg with lead battery (8h of use)

Grimm #165 Outdoor Housing

Housing:	Glass Fibre Material, grey
Spectrometer:	Space for 107 Monitor
Sampling System:	Connention for the 1,5 m pipe
Dryer System:	Silica Gel Container
Humidity control:	External Sensor
Heating:	auto-heating system
Heater control:	External Sensor
Ventilation:	Proportional fan for cooling
Meteorology:	1-Wire connection
Protection:	two lock system
Fixation:	Wall support screws
Power supply:	220V/110V
Temp. Range:	-20°C to +40°C
Size:	40 x 40 x 20 cm
System weight:	18 kg

Dealer:



Spanish Port.



Salzburg City Centre



Austrian Hilltop

The European Leader in Particle Measurement Technology

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