

GRIMM EDM 665



No matter what particle size - now you can see them all!

Wide Range Aerosol System

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Flagship of our Enviro line is the Wide Range Aerosol System EDM 665, the ideal combination of optical and electrical mobility particle sizing. It has been designed for environmental research with a perfect overlap of both technologies in the measuring results. This system automatically determines the size distribution of all aerosols ranging from 5 nm to 30,000 nm in more than 70 different size channels. In addition, it is a stand-alone system with an automatic sample air dehumidification and moisture extraction system incorporated. Thanks to the integrated air conditioning providing uniform operating conditions, the system can be run unsupervised for extended time periods necessitating but one single minor intervention a month. Meteorological sensors as well as GPS and wireless transfer are optionally available.



Wide Range

EDM 180

SMPS

CPC

SOFTWARE

Real-Time

Remote Control

Online

GPS

Approved

Reliable

Rugged

Data Acquisition, Illustration, and Evaluation

Our newly developed software lets you to easily retrieve your data either directly from the device by PC or online with our Data Logger 1142.M5 described below.

All your data can be graphically displayed in accordance with your requirements and favored layouts.

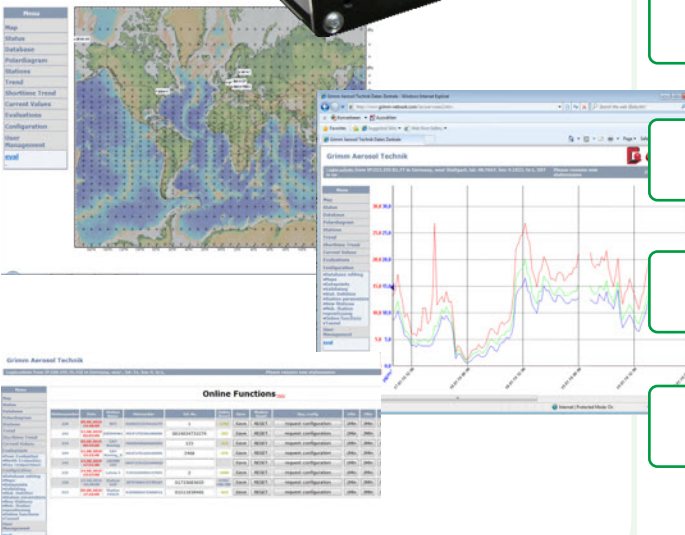
The Advanced Evaluation Program helps you create graphics, charts, tables, and more for subsequent analysis and/or demonstration purposes.

1142.M5 Data Logger



Grimm Aerosol Technik

Loggerversion: Seite 20/188,190,20,130 in Germany, Seite: 10/11, Seite 5, 5/15



Over the last two years, GRIMM developed the Data Logger 1142.M5. This data logger is an all-in-one microcomputer interface with integrated web server permitting an interactive communication with the instrument based on TCP/IP protocols.

This logger can be combined with all GRIMM products adding the following features to our instruments:

Extended storage of up to 4 GB, remote control, the possibility to combine information from GRIMM monitors with data from various other sensors such as meteorology and gas probes. Data can be transmitted in real-time to the world wide web, our GRIMM data base system, your web page or an Intranet.

The GRIMM database system offers a range of possibilities for the remote administration and configuration of your instrument from wherever you are and the data thus obtained can be presented in a variety of charts and diagrams.



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Environmental Research Wide Range Aerosol System

Main specifications EDM 665:

Measurement range

- 71 size channels
from 5.5 nm up to 32 μm
- Minimum scan time of 300 seconds
- Concentration range from 1 to 10⁷ P/cm³

Optical device

- Size range: 250 nm to 32 μm
31 size channels
- Particle counts: 1 to 2 x 10³ P/cm³
- Sample flow: 1.2 l/min
- Reproducibility: 3% in max. range

SMPS+C device

- Size range: 5.5 nm to 350 nm
44 size channels
- Particle counts: 0 to 10⁷ P/cm³
- Sample flow: 0.3 liters/min
- Auto refill: Butanol refill of internal tank simply by connecting the bottle
- Condensate removal: Continuous evacuation by micro-pump into a collecting flask

Communication ports

- integrated Microcomputer for data acquisition
- integrated GRIMM Data Logger 1142.M5
- 2 x RS-232 with 9-pin D connector
- 2 x PCMCIA-slots for memory card use
- Digital inputs for meteorological or gas sensors

Operating conditions

- Ambient temp.: -20°C to +55°C
- Power supply : 110/220 VAC, 50/60 Hz
- Power consumption: 750 W

Dimensions & weight incl. A/C

- Size: 60 x 60 x 120 cm
- Weight: 120 kg
- Sample pipe: 1.5 m (3 m optionally avail.)



Flagship of the GRIMM Enviro line - the EDM 665 Wide Range Aerosol System. This unique combination of optical and electrical mobility particle sizing technologies ideally supports environmental research in an extremely wide range of average particle diameters from 5 nm to 30,000 nm.



19" GRIMM Optical Particle Counter with 31 size channels

- ✓ 19" GRIMM CPC Condensation Particle Counter with included M-DMA (Vienna Type) and 44 size channels
- ✓ Sampling probe with isothermal dehumidification (no heating)
- ✓ Shelter outdoor housing with air-conditioning system

Highlights

- ✓ Counts all particles from 5.5 nm up to 32 μm in size
- ✓ 71 size classes
- ✓ Concentrations of 1 to 10⁷ particles/cm³
- ✓ Stand-alone measurement
- ✓ Fully automatic
- ✓ 19" rack mounted Instruments
- ✓ Unsupervised operation for extended periods of time

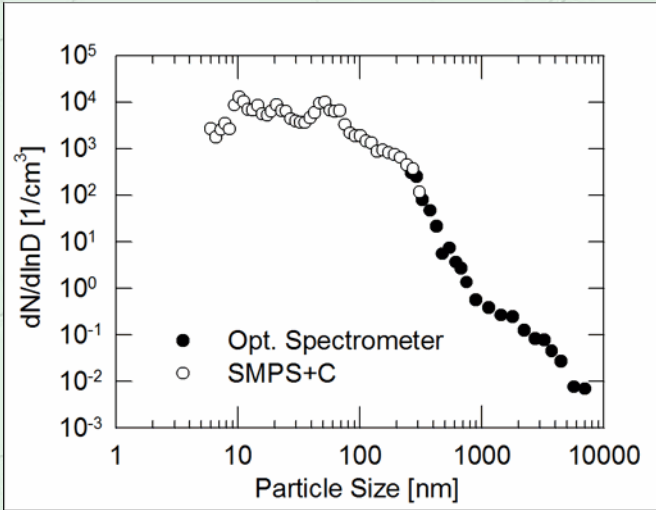
Applications

- ✓ Environmental studies
- ✓ Aerosol research
- ✓ Mobile aerosol studies
- ✓ Roadside monitoring
- ✓ Engine exhaust studies
- ✓ Health effect studies

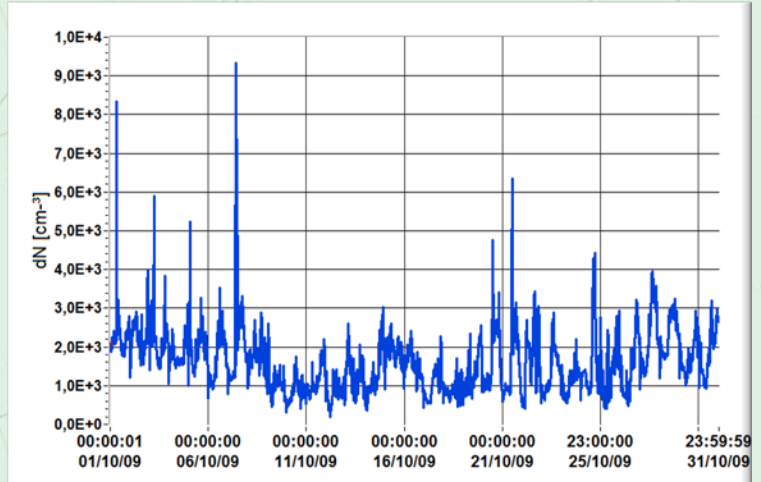


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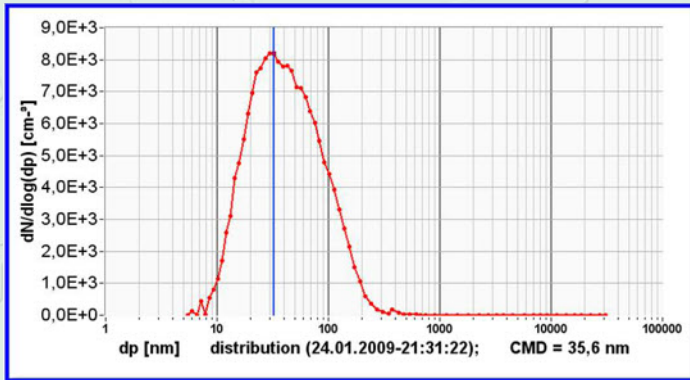
Present your data any way you like



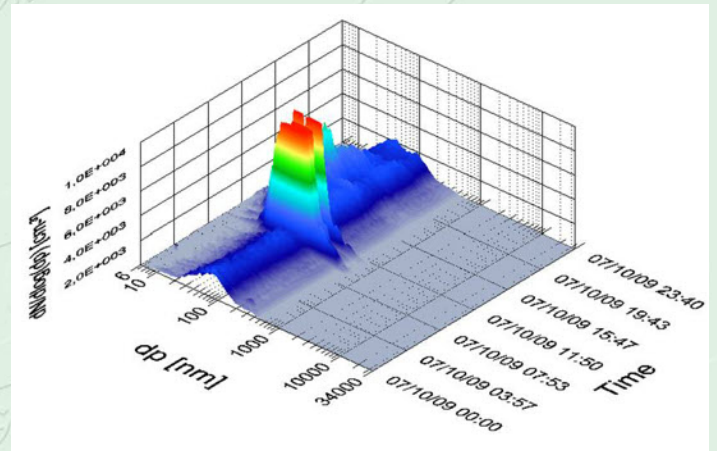
Overlap from optical and electrical size measurements



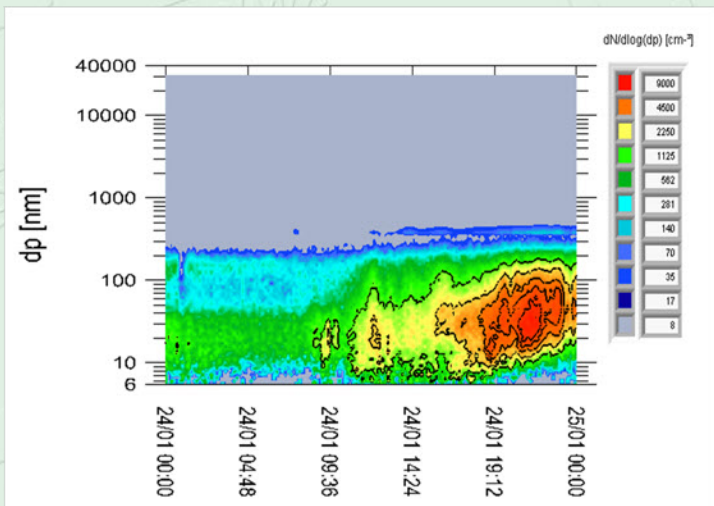
Total number concentration



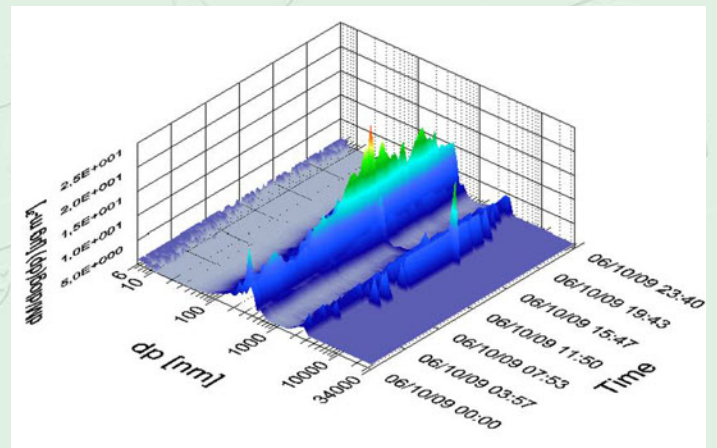
Particle number distribution



Particle number distribution 3D



Particle number distribution



Particle mass distribution