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# GRIMM EDM164 Industrial Enviro Check



The Model 164 combines the world's most efficient and reliable EN & US-EPA approved GRIMM light scattering technology for dust monitoring with the rugged dehumidity system of heating.

The monitor is designed for maintenance-free long-term monitoring without any operator interaction. The combination with optional sensors for meteorology (wind speed, wind direction, humidity, temperature and rain) and the GRIMM datalogger 1142.M5 is setting new steps in hot spot monitoring.

Data are available in real time, stored in the internal memory and can be read out using the included PC software or optionally be shown directly real-time in the WWW using the 1142.M5.



## Advantages

- ✓ Fully automatic
- ✓ Portable
- ✓ 3 different PM's
- ✓ No radioactive source
- ✓ Not critical to vibration
- ✓ Low maintenance
- ✓ Extended memory
- ✓ DC power supply for solar panel or truck (optional)
- ✓ Particle size (optional)
- ✓ Meteorological sensors (optional)
- ✓ Data logger (optional)
- ✓ RS-232

## Specifications EDM164:

Equivalent to:

EN12341 & EN14907  
 US-EPA

Measuring principle:

multi channel light scattering optics

Measurement results:

PM<sub>10</sub>, PM<sub>2.5</sub>, Pm<sub>1</sub>, and TC  
 optional:

0.25 to >32 μm in 31 channels

Particle concentration:

1 to 2,000,000 particles/liter

Data presentation:

from 6 sec. up to 1h average

Data storage:

internal storage

Dust mass:

0.1 to >6,000 μg/m<sup>3</sup>

Sample flow:

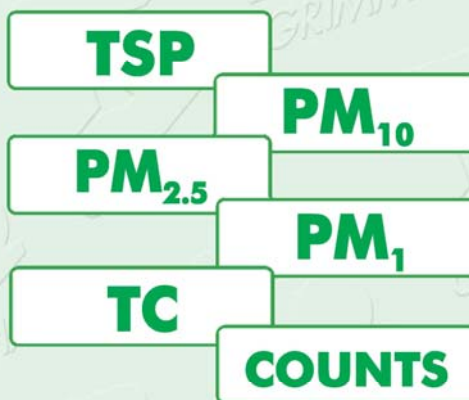
1.2l/min, volume controlled

Reproducibility:

5 % in max. Range

Software:

GRIMM #177



## Specifications Housing:

Housing:	Glass fiber, grey
Sampling system:	0.5m pipe with TSP head
Winter protection:	Heating inside
Dehumidification:	Heated sampling pipe
Ventilation:	Automatic, proportional
Meteorology:	Optional
Data logger:	Optional
Security:	Double lock system
Fixation:	Wall support hook
Power supply:	110V/230V AC, 50-60Hz
optional:	12V - 32V DC
Temperature range:	- 25°C to +50°C
Size:	40 x 40 x 20 cm
System weight:	12 kg



## Applications

- ✓ Mobile monitoring
- ✓ Hot spot monitoring
- ✓ Public site monitor
- ✓ Source identification

[www.GRIMM-aerosol.com](http://www.GRIMM-aerosol.com)

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