BEMS 3000







In Europe, motor vehicles (light-duty vehicles) will in the future be tested for braking emissions in the WLTP cycle. The basis for this is the directive ECE/TRANS/WP.29/GRPE/2023/4, in short, UN GTR. The particle sizes in brake emissions are in the nanoparticle range of up to about 10 μ m in concentrations of up to 2x10⁶ particles/cm³. Therefore, emissions in this size range are tested for TPN (Total Particle Number, solid and volatile) and SPN (Solid Particle Number, solid particles only, in particles/cm³). The PM_{2.5} and PM₁₀ values (in μ g/m³) are also considered.

This device is sold via our partner Link.^a

BENEFITS

- Compliance with the new regulations ECE/TRANS/WP.29/GRPE/2023/4
- Integrated flow rate measurement and zero count rate verification
- Measurement paths also available separately for TPN or SPN only
- Monitoring of all data relevant to operation
- · Robust, compact design
- Expandable with BEMS 4000 for time-resolved measurement of PM_{2.5}, PM₁₀, TSP, and particle size distribution.

APPLICATIONS

- Measurement of brake dust emissions according to UNGTR
- Measurement of the number concentration up to 2.5 μ m in other applications such as tire wear measurement

 $^{{}^}a Link\ Website:\ https://www.linkeng.com/product/model-4222-brake-emissions-particle-measuring-system/product/model-4222-brake-emissions-particle-measuring-system/product/model-4222-brake-emissions-particle-measuring-system/product/model-4222-brake-emissions-particle-measuring-system/product/model-4222-brake-emissions-particle-measuring-system/product/model-4222-brake-emissions-particle-measuring-system/product/model-4222-brake-emissions-particle-measuring-system/product/model-4222-brake-emissions-particle-measuring-system/product/model-4222-brake-emissions-particle-measuring-system/product/model-4222-brake-emissions-particle-measuring-system/product/model-4222-brake-emissions-particle-measuring-system/product/model-4222-brake-emissions-particle-measuring-system/product/model-4222-brake-emissions-particle-measuring-system/product/model-4222-brake-emissions-particle-measuring-system/product/model-4222-brake-emissions-particle-measuring-particle$



DATASHEET

Measurement range (size)	10 – 2,500 nm	Maximum particle number concentration	0.1 - 1,000,000 particles/cm ³ , count mode incl. dilution 1:100
Volume flow (clean air)	180 l/min	Interfaces	Ethernet (LAN)
Power supply	100/230 V, 50/60 Hz, max. 600 W	Compressed air supply	4 – 8 bar
Dimensions	1,100 • 750 • 650 mm (H • W • D)	Weight	Approx. 135 kg