

Particle type	Diameter (nm)	Expanded measurement uncertainty of the diameter (%)	Number concentration (Particles/cm ³)	Expanded measurement uncertainty of the number concentration (%)	Examples of instruments to be calibrated
Polystyrene spheres	100 to 15000 [†]	< 5	0.5 to 1000 (depending on particle size)	< 10	<ul style="list-style-type: none"> Optical particle counters (OPC, OPSS) Aerodynamic particle sizers (APS) Condensation particle counters (CPC)
Polystyrene spheres	50 to 1000	< 5	< 5 × 10 ⁴	< 10	<ul style="list-style-type: none"> Aerosol dilution units
Polystyrene spheres	80 - 200	< 5			<ul style="list-style-type: none"> Differential mobility analyser (DMA)
Combustion particles (monodisperse aerosol)	10 - 200	5	1 000 bis 80 000 (depending on particle size)	< 5	<ul style="list-style-type: none"> CPC Diffusion chargers Electrical low-pressure impactors (ELPI) SMPS
Combustion particles (polydisperse aerosol)	20 to 200	5	< 2 × 10 ⁶	< 5	<ul style="list-style-type: none"> CPC Diffusion chargers SMPS
Other substances (e.g. Tetracontane, emery oil, salt particles)	30 to 300	On enquiry	< 10 ⁵	On enquiry	<ul style="list-style-type: none"> CPC, OPC Volatile particle remover Laser/Flame Photometer
Synthetic ambient-like aerosols	PM _{2,5} und PM ₁₀		Mass concentration (µg/m ³) 15 - 300	Expanded measurement uncertainty of the mass concentration (%) <10	<ul style="list-style-type: none"> PM monitors and low-cost sensors

* The list comprises only the standard services, but we are also happy to undertake customer-specific projects.

† Calibration point at 15 µm available upon request.