



Measurement range for aerosol particles*

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 5000 [†]	< 5	1 to 200	< 10	Optical particle counters (OPC)
Polystyrene spheres	50 to 1000	< 5	$< 5 \times 10^4$	< 10	Dilution units
Combustion particles (monodisperse aerosol)	10	5	500 to 1 500	< 5	Condensation particle counters (CPC), Faraday-cup aerosol electrometer (FCAE), OPC, Diffusion batteries, Electrical low-pressure impactors (ELPI)
	15		500 to 5 000		
	23		500 to 10 000		
	40		500 to 10 000		
	70 to 150		500 to 15 000		
Combustion particles (unimodal aerosol)	20 to 200	5	$< 2 \times 10^5$	< 5	CPC, FCAE, OPC, ELPI Diffusion batteries
Other substances (e.g. Tetracontane, emery oil, salt particles)	30 to 100	On enquiry	$< 10^4$	On enquiry	CPC, OPC, Volatile particle remover

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

[†] Calibration point at 10 µm available upon request.