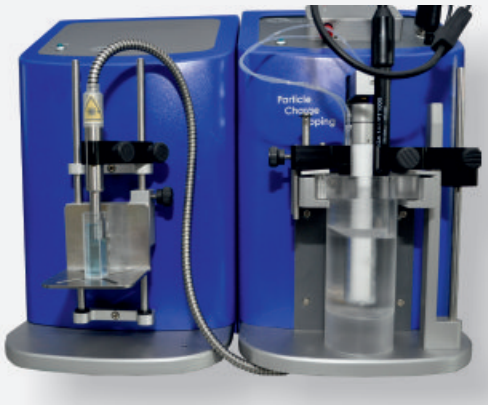
COLLOID METRIX

StabiSizer®

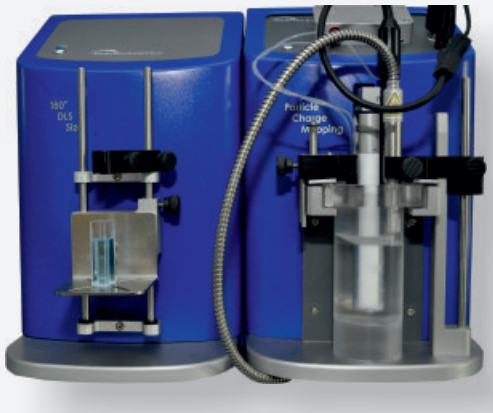
Size from 0.3 nm to 10 µm
Particle charge 0.3 nm to 300 µm

Dynamic Light Scattering Instrument with simultaneous
Zeta Potential Measurement and Titration.

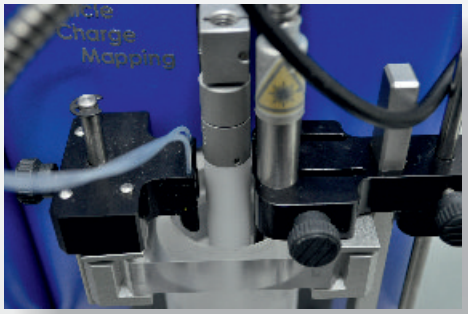
The StabiSizer® is an extremely flexible and multifunctional measurement instrument with an included titration unit. As endpoints of the titration, pH-value, zeta potential, conductivity or volume can be chosen. The titrations are possible with fixed or dynamic titration invervals. A titration typically takes about 5-15 min.



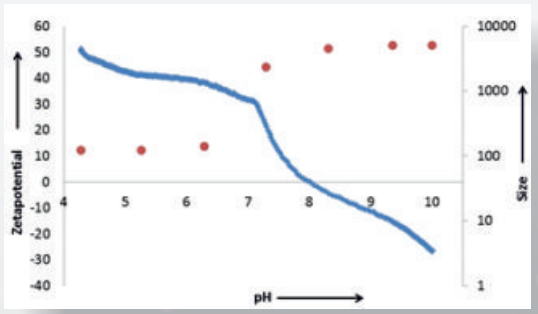
Size and zeta potential measurement



Size and zeta potential measurement during the titration



Detail view titrator



Size and zeta potential titration for determination
of the point of coagulation

StabiSizer® Technical Data

Laser:	Diode laser 780 nm wavelength, class IIIb, with second integrated heterodyne backscatter laser
Detector:	Sensitive photodiode, adapted automatically to scattered light intensity*)
Scattered light angle:	Heterodyne scattered light angle assembly – laser intensified scattered light reference method (FFT-PS) *)
Particle sizes: **- Size measurement** **- Zeta potential**	0.3 nm - 10 µm 0.3 nm - 300 µm
Potential	± 3000 mV
Mobility	± 14 µm/s/V/cm
Min. sample volume: **- Size** **- Zeta potential**	from 10 µl from 950 µl
Reproducibility: **- Size:** **- Zeta potential**	1% with standard dispersion 2% with standard dispersion
Sample concentration size and zeta potential:	0.001 to 40%
Solvent tolerance:	aqueous, polar and non-polar organic solvents
Conductivity:	up to 350 mS cm^{-1}
Humidity:	up to 90%, non-condensing
Sample temperature: **Temperature measurement:**	10 - 90 °C Accuracy +/- 0,1°C
pH range:	1 to 14 pH
Determination of molecular weight:	300 Da – 20 MDa (hydrodynamic and Debye)
Titration: **End points**	pH, zeta potential, conductivity, volume and time
Volume increment: **Dosing interval:**	10 to 100 µl fix and dynamic from 5 sec fix and dynamic
Power supply: **Dimensions:** **Weight:**	100 - 240V 375 x 300 x 260 mm (W x H x D) ca. 18 kg

DLS measurement according to ISO 22412.
*) Manufacturer-relevant data, have no general influence on generation of measurement results like size, zeta potential and titration

CE approved.

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COLLOID METRIX