



Nanotrac Flex

In-situ Nano-particle Size Analyzer



Nanotrac Flex *Features*

- Unique probe technology - simply dip and measure
- Measures particles ranging in size from 0.3 to 10,000 nanometers
- Dynamic light scattering incorporating the patented Controlled Reference Method for advanced power spectrum analysis of Doppler shifts under Brownian Motion
- No "A Priori" or advance knowledge of the particle size distribution is required
- Accurately measures from ppb to 40% concentration

Nanotracs Flex Specifications

Method 1:	Dynamic light scattering Controlled Reference Method, Heterodyne 180°
Analysis 1:	Fast Fourier-Transformation of the frequency power spectrum for size calculation
Method 2:	Static light scattering with integrated dn/dc determination
Analysis 2:	Molecular weight determination according to Debye: 1000 Da - 20 Mio Da
Laser:	780 nm, 5mW - Class 1 Laser Product per 21 CFR 1040.10
Detector:	Solid-state photodiode
Particle Size Range:	0.3 to 10,000 nanometers
Probe:	Single mode fiber with sapphire window as sample interface, probe diameter 8 mm. 1 m flexible tube with sensor dip. Built-in height adjustment of sample container
Samples:	Aqueous and organic macromolecular solutions and dispersions
Temperature Range:	0° C to 90° C, within temperature range from 10° C to 50° C with +/- 0.1° C accuracy
pH Range:	1 to 12pH
Temperature Sensor:	Thermistor inside the sensor
PC:	Requires Laptop or Desktop
Dimensions:	180 x 300 x 260 mm (without mounted tubes and cables)
Accessories:	Cleaning kit, 1 set of 10 ml pipettes
Weight:	6kg
Electrical Supply:	24 Volt power adapter, 100 to 240 volt, 50/60 Hz, 90 VA, 1 kg

Nanotracs Flex complies with ISO 22412:2008

SL-PS-34 rev D