



NANOPHOX CS | Successful and fast DLS analyses in high sample concentrations

Press Release POWTECH 2023

Pulverhaus | Clausthal | DE - Sympatec presents: The new generation of NANOPHOX. NANOPHOX CS takes the proven PCCS to the next level with Sympatec's innovative polarization-separated backscatter PCCS. Maximum sample concentration at shortest measurement times with best repeatability awaits you at POWTECH 2023.

As a professional pioneer of photon cross correlation spectroscopy (PCCS), Sympatec has been offering a proven technology based on dynamic light scattering (DLS) for particle size analysis from < 1 nm to 10,000 nm for years.

The technological advantage of PCCS is the correct measurement of particle size distributions without the influence of multiple scattered light, which is triggered by the 3D cross-correlation of two separately generated scattered light signals. Extensive sample dilution can be avoided, as even highly concentrated, opaque suspensions or emulsions can usually be measured directly.

The enhanced of PCCS | The polarization-separated backscatter PCCS [Patent pending]

The innovative polarization-separated backscatter PCCS from Sympatec combines the significantly improved elimination of multiple scattering with an efficient backscattering technique. Outstanding performance characteristics of up to a hundred times higher sample concentrations with up to ten times shorter measuring times as well as improved accuracy and repeatability of the measurement results.

The NANOPHOX CS measures samples undiluted and directly in their original concentration with measuring times of less than one minute. The great advantages for the user include the reduction of errors and effort as well as the time saved in sample preparation and the good reproducibility of measurements.

With the new NANOPHOX CS, both the proven disposable acrylic cuvettes and glass cuvettes as well as new solvent-resistant disposable cuvettes and micro cuvettes for small sample volumes are available.

New features of PAQXOS | User-friendly, informative operation and evaluation

With the PAQXOS control and evaluation software, Sympatec is putting its metrological expertise on a user-friendly and powerful footing. At the push of a button, the software automatically adjusts all measurement parameters to the optimum, checks the measurability of the sample before starting the particle size analysis and displays the signal quality during and after the measurement for orientation purposes. Particularly user-friendly are the automatic adjustment of the laser intensity and the precise positioning of the cuvette to optimise the measurement signal.

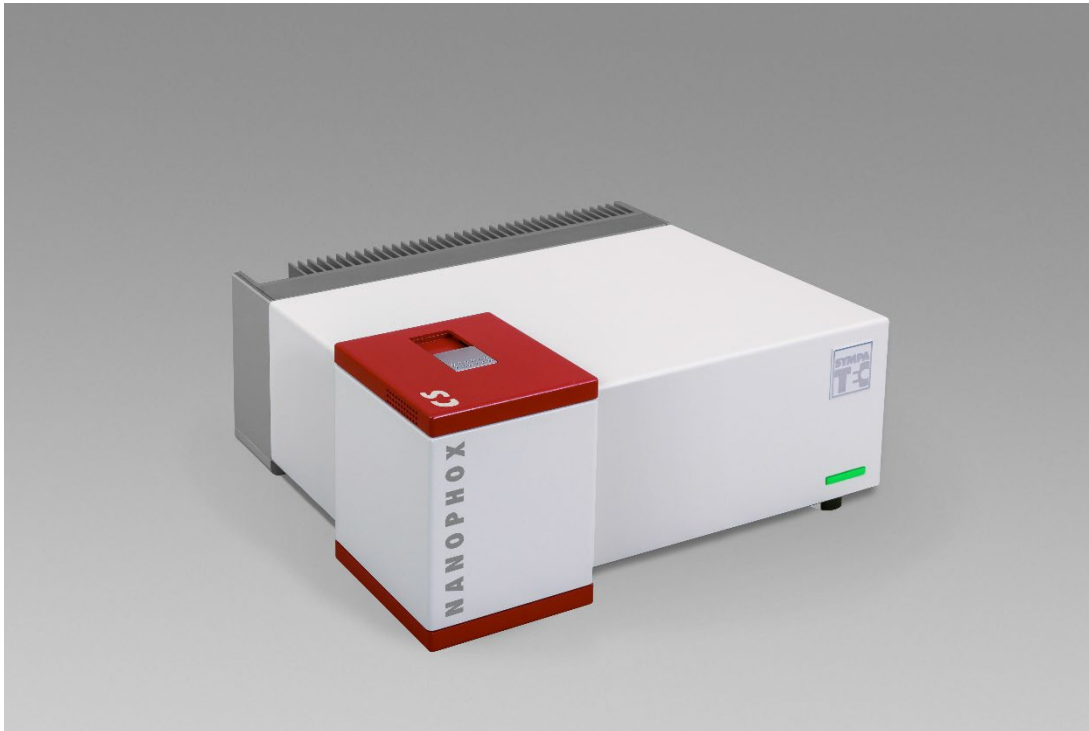


Figure 1: NANOPHOX CS for the size analysis of nanoparticles in opaque suspensions and emulsions.

Image-ID: NANOPHOX-CS.jpg; Source: Sympatec GmbH

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