Malvern Instruments MPT-2 Multi-Purpose Titrator

Description:

The MPT-2 autotitrator is an optional accessory compatible with all members of the Zetasizer Nano series. It is designed as a sample preparation station to automate changes in the sample conditions between measurements of size, intensity and zeta potential. The sample conditions that can be changed are: pH, conductivity, the concentration of an additive and the sample concentration.

Features:

• The minimum sample volume is as low as 2.5mL
• Three titrant syringes are built in that can each be assigned to acid, base, additive or different concentrations of the same titrant
• All settings are integrated into the standard software operating procedure (SOP) for simplest operation and to ensure repeatability
• A software controlled magnetic stirrer is incorporated to ensure additives are mixed rapidly to ensure fast equilibration
• Multiple measurements of size, zeta potential and intensity can be made at each point as requested
• The sample tubing is replaceable
• The pump speed is variable and controlled through the software
• A disposable polypropylene sample container is used, which is also used for the titrants
• A fast response, liquid filled pH probe is supplied with buffer capsules and top-up fluid
• An optional sample filter can be fitted to improve repeatability with materials such as proteins
• Connection is through the Zetasizer optics unit, no extra connection to the PC is required
• An evolving plot of the titration trend is displayed during the titration