

Zetapotential Analyzer

Quantity: 01 No.

(Software for data acquisition, measurements and analysis of zeta potential, electrophoretic mobility, isoelectric point; Warranty of unit : 18 months)

Zeta potential : Max +/-500 mV

Zetapotential resolution: ~ 0.1 mV

Particle Size (for zetapotential measurement): 2 nm upto 100 μm

Electrophoretic mobility range: ~ 10^{-10} to 10^{-7} $\text{m}^2/\text{V.s}$

Mobility resolution: 10^{-10} $\text{m}^2/\text{V.s}$

Laser source: 20 mW diode at 635 nm

Temperature control range: 10°C to 70°C

Cell: Cuvette cell with high optical quality and compatible with organic solvents

Cell electrodes: long life resistance to oxidation and easy to clean

Sample conductivity: Max 300 mS/cm

Sample type: Aqueous and organic solvents (pH: 1-14)

Measurement angles: single angle measurement

Operating temperature and humidity: 15-35°C, RH 85% or less (non condensing)

Purging: Dry gas purge port tube connection (optional)

Power supply: AC 220- 240 V, 50/60 Hz,

Accessories for five years

- (i) Standard Cuvette cells for aqueous and organic solvents
- (ii) Zeta potential Reference material (standard samples)
- (iii) Small volume disposable cells
- (iv) Digital Micropipettes 10 Nos. (2 for each volume range; Volume ranges 0.5 -12.5 μl , 2 - 50 μl , 5 -125 μl , 10 - 300 μl and 50 - 1250 μl)
- (v) Electrode cleaning kit
- (vi) Spares and consumables for the Zeta potential Analyzer
- (vii) Disposable filters for solvents (100 each) (Teflon, 0.1, 0.2, 0.45 micron)
- (viii) Plastic cells with caps (100); to store and keep samples
- (ix) Glass cells with caps (20); to store and keep samples
- (x) Digital Micro syringe pumps (2 Nos.) with syringes.
- (xi) Complete Vacuum filtration kit
- (xii) Repair and mainline tool kit (if any)