ZetaPhoremeter® Zeta potential meter for nanoparticles 11.11 Laser illumination & video interface High resolution spectrum of mobility & zeta potential

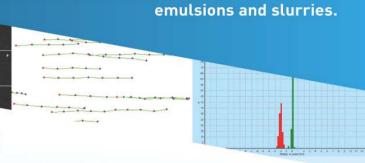
Ideal for water
treatment applications

Automatic zeta potential measurement by video analysis



ZetaPhoremeter IV® SPECIFICATIONS

ZetaPhoremeter IV® is a modular zetameter designed to measure electrophoretic mobilities & Zeta Potential. Results help to understand and control behaviour of colloidal suspensions,



FEATURES

- 1/ Charged particles in a liquid suspension can be made to move by applying an electric field to the liquid through two electrodes.
- 2/ ZetaPhoremeter combines laser ligth scattering and microscope to observe the movments of particles.
- 3/ Microscopic observation shows the enormous advantage of seeing the particles and visualizing any perturbation within the electrophoretic chamber e.g convection, sedimentation, contamination...
- 4/ Sample temperature & electrical conductivity are permanently measured in-situ by fast response micro-probe.
- 5/ Software is easy to use (image analysis, mobility spectrum, zeta potential calculation with different equations).
- 6/ Lot of options available Compatible with several existing microscopes - Specific models.

PARAMETERS MEASURED

Electrophoretic mobility Zeta potential рН Electrical conductivity Temperature Cell position



The CELL contains 4 electrodes fitted into perfectly symmetrical chambers - Easy to use & to clean

TECHNICAL DATA*

Electronics Units

· Electric field generator 250V - 10mA · Conductivity meter 10µS/cm - 100mS/cm Communications Via RS232C serial port

· Positioning sensor resolution

 Power supply 100V to 250V - 50 to 60Hz - 50 VA Dimensions W 450mm x D 300mm x H 150mm

· Weight

Measuring Cell

Particle size measured

· Cell

 Rectangular section Main electrodes

Secondary electrodes

 Temperature sensor precision

Sample volume

30nm-10µm

Quartz interchangeable capillaries

5x2x70mm Palladium

To measure electric field

0.1°C 6ml

Microscope

- Compatible with several existing microscopes. Contact your local agent for supply of specific cell support. NIKON ECLIPSE 50i™ is supplied as standard.
- Optional dark field, phase contrast, fluorescence, polarisation.

