METER
ENVIRONMENT

PARIO

PARTICLE SIZE ANALYSIS, AUTOMATED

PARIO calculates the particle size distribution by Stokes' law, with a range spanning from 63 µm to 1 µm, finally making it easy to obtain a complete particle size distribution curve, instead of just a few measurements at discrete time points.

It allows for unattended, automated operation, with no interference by lab personnel. Just set it up and come back 8 hours later to a finished measurement with all the data you need.

FEATURES

- Get complete particle size distribution curves
- Calculation of particle size distribution by Stokes's law
- Autonomous operation after measurement start
- Quasi-continuous resolution of particle size distribution
- No physical disturbance of suspension during measurement
- Avoidance of manual reading errors
- Avoidance of manual calculation errors
- Temperature dependence automatically integrated in the calculation of particle size distribution

SPECIFICATIONS

PARTICLE SIZE	Range: 2-63 µm Resolution: 1 µm
APPROXIMATE ERROR	±3%
ACCURACY OF MEASUREMENT	±1 Pa
PARTICLE MASS	25–50 g per 1-L suspension
DURATION OF MEASUREMENT	8 h
MEASUREMENT INTERVAL	10 s

PHYSICAL SPECIFICATIONS

GLASS CYLINDER	
HEIGHT	450.0 mm (17.7 in)
DIAMETER	Inner: 59.0 mm (2.3 in)
OUTER	67.5 mm (2.7 in)
VOLUME	1,000 cm3 (61.0 in3)
MATERIAL	Borosilicate glass 3.3
VOLUME	1,000 mL
OPERATING TEMP	Minimum: 15 °C Typical: 20 °C Maximum: 35 °C
CABLE TYPE	USB 2.0; 500 mA for receiving port