

Measuring Unit / Laser Particle Sizer

ANALYSETTE 22

NanoTec

Order No. 22.8000.00

PRODUCT DETAILS

PRODUCT INQUIRY

TECHNICAL DATA

Measuring range	wet dispersion: 0.01 - 2100 µm dry dispersion: 0.1 - 2100 µm
Analysis method	laser light scattering
Type of analysis	wet and dry measurement of the particle size of solids and suspensions
Measurement value	particle size
Theory	Fraunhofer, Mie
Standard	ISO 13320, better than ISO 13320 in accuracy and repeatability
Number of particle size classes	max. 110
Optical design	Reverse Fourier design with movable measuring cell (FRITSCH-patent)
Laser	1 x green ($\lambda = 532$ nm, 7 mW) 1 x IR ($\lambda = 850$ nm, 15 mW) Linear polarisation 10000 hours average service time
Laser beam alignment	automatic
Laser class according to IEC 60825-1:2007 and CRF	Class 1
Fourier lenses	260 mm and 560 mm focal length (green or IR) 10 mm diameter of the laser beam in the Fourier lens

Cell spacings	20 mm for green 540 mm for IR
Angle range	0.014° - 165°
Number of main detector channels	51
Number of large angle detector channels	6
Number of backward scattering channels	2
Number of laser adjustment channels	19
Time for capturing detector channels	41 µs (24 kHz)
Detectors	2 segments 1 x for vertical and 1 x for horizontal direction of the laser light polarisation 57 elements
Typical measuring time	5 - 10 s (measurement value recording of a individual measurement) 2 min (entire measuring cycle)
Evaluation	particle size distribution as cumulative curve, bar chart or in a table form
Voltage	100-120 / 200-240 V/1~
Frequency	50-60 Hz
Input power	50 Watt
Net weight	38.4 - 43 kg (depending on configuration)
Dimensions (W x D x H)	53 x 62 x 35 - 55 cm (depending on configuration)
Computer	pre-installed MaS control software for controlling, recording and evaluating your measuring results (deliveries to CIS countries without computer)
System requirements (for computers supplied by customer)	Standard Windows PC, at least 500 MB available free hard drive space, 1 GB RAM, Windows 7 or higher, USB port, at least 19" monitor

THE FOLLOWING DISPERSION UNITS ARE AVAILABLE:

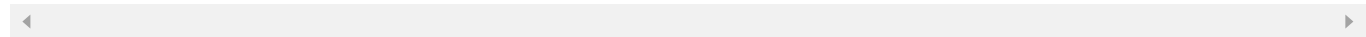
WET DISPERSION UNIT

SMALL VOLUME WET DISPERSION UNIT SVA

SMALL VOLUME WET DISPERSION UNIT SVM

DRY DISPERSION UNIT

FALLING CHUTE



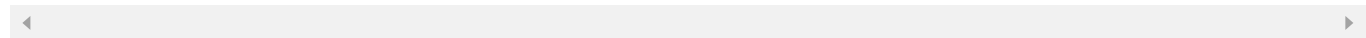
AUTOMATION OF MEASUREMENT SERIES

DETAILS AUTOSAMPLER



ISO 13320

TECHNICAL SPECIFICATIONS ACCORDING TO ISO 13320



PARTICLE SIZING REPORT DATABASE

SEARCH FOR MATERIAL:

SEARCH FOR INSTRUMENT:

FIND PROTOCOL



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INDIVIDUAL PARTICLE ANALYSIS

Send us your sample. We conduct a particle analysis and recommend the right device for your application.

TO PARTICLE ANALYSIS