



S3500

Laser Diffraction Particle Size Analyzer



Microtrac S3500 *Features*

- TRI-LASER, red, multi-detector, multi-angle optical system
- Algorithms that utilize Mie compensation and Modified Mie calculations for non-spherical particles
- Measurement capability from 0.02 to 2800 microns
- Wet and Dry Measurements
- Fixed detectors and lasers
- Enclosed optical path ensures complete protection of the optical components leading to little or no operator intervention
- Small bench footprint



S3500 Specifications

| | |
|--------------------------|--|
| Measuring Range: | 0.02 to 2800 Microns |
| Basic Range: | Wet: 0.7 to 1000 um Dry: 0.7 to 1000 um |
| High Range: | Wet: 2.75 to 2800 um Dry: 2.75 to 2800 um |
| Standard Range: | Wet: 0.24 to 1400 um Dry: 0.24 to 1400 um |
| Special Range: | Wet: 0.086 to 1400 um Dry: 0.24 to 1400 um |
| Extended Range: | Wet: 0.021 to 2000 um Dry: 0.24 to 2000 um |
| Enhanced Range: | Wet: 0.021 to 2800 um Dry: 0.24 to 2800 um |
| Precision: | Spherical Glass Beads D50 = 642 micron, Precision as CV = 0.7% Spherical Glass Beads D50 = 56 micron, Precision as CV = 1.0% Spherical Latex Beads D50 = 0.4 micron, Precision as CV = 0.6% |
| Lasers: | Wavelength 780nm |
| Power: | 3mW nominal |
| Detection System: | Two fixed photo-electric detectors with logarithmically spaced segments placed at correct angles for optimal scattered light detection. 0.02 to 163 degrees using 151 detector segments. |
| Data Handling: | Volume, Number and Area distributions as well as percentile and other summary data. Data is stored in ODBC format in encrypted Microsoft Access Databases to ensure compatibility with external statistical software applications. Data integrity may be ensured using FDA 21 CFR Part 11 compliant security features including password protection, electronic signatures and assignable permissions. |
| Typical Analysis Time: | 10 to 30 seconds |
| Electrical: | AC input: 90 – 132 VAC, 47 - 63 Hz, single phase 200 to 265 VAC, 47 – 63 Hz, single phase |
| Power Consumption: | 10 to 30 seconds |
| Environmental: | Temperature: 10 to 35 Degrees C. (50 to 95 Degrees F) Humidity: 90% RH, non- condensing maximum Storage Temperature: -10 to 50 Degrees C (14 to 122 Degrees F)(Dry only) Pollution: Degree 2 |
| Physical Specifications: | Case Material: Steel and impact resistant plastic |
| Finishes | Exterior Surfaces finished with corrosion resistant paint or plating |
| Dimensions | 14H x 22W x 18D in (360H x 560W x 460D mm) |
| Weight | 60 lbs (27 kg) |
| Dry Operation: | 100 psi (689 kPa) maximum pressure 5 CFM at 50 psi (345 kPa) minimum flow rate Free of dry contaminants, moisture and oil. |
| Vacuum: | Vacuum must exceed 50 CFM |

Accessories

SDC



Turbotrac



SIA



MAC26



USVR



Complex Particles. Clear Data.

SL-PS-01 Rev. F