

Seta AvCount Lite SA1800-2

Portable Light Extinction Particle Counter

ASTM D7619; ASTM D975; IP 565; JIS 9932:2012; JIS B 9933:2021 JIS B 9934:2012

- ISO 11171 calibration
- Cumulative Particles/ml
- ISO 4406 Cleanliness Codes
- Simple operation
- Portable, compact instrument
- Under 3 minute test time
- Online/offline sampling
- Stand-alone or PC controlled
- PC programmable
- Integrated printer
- Optional battery for portable use



Fuels • Hydraulic Oil • Light Lubricants



| Technical Specifications | |
|---|---|
| Operation | |
| Principle of operation | Laser obscuration |
| Test methods | 3 embedded test methods, user programmable via PC Supplied with ASTM D7619; IP 565; ISO 4406 pre-installed |
| Particle size range | ISO 11171: 4μ m(c) to >70 μ m(c) (calibration for larger sizes available on request) |
| Test duration (ASTM D7619; IP 565) | Less than 3 minutes |
| Pressure (max) | Online pressure 10 Bar, pressure reducing valve for high pressure max 300 Bar |
| Sample temperature range | Ambient 0 to 70 °C |
| Operating temperature range | Ambient 5 to 40 °C |
| Relative humidity (max) | 80% @ 40 °C |
| Sampling method | Bottle sample or online connection |
| Programmable test method parameters (via PC) | Size Protocol (number of repeat measurements, flush volume before first measurement, flush volume between measurements, flush between measurements) Single or automated repeat tests, interval between repeat tests |
| Display and control system | Yellow on black high contrast display, simple menu driven system with rotate and push control |
| Measurement | |
| Measuring channels | 6 size channels displayed on instrument, up to 16 programmable via PC 4μ m(c), 6μ m(c), 10μ m(c), 14μ m(c), 21μ m(c), 25μ m(c), 30μ m(c), 38μ m(c), 70μ m(c) |
| Counts per measurement (max) | 60,000 per ml |
| Coincidence error limit | 60,000 particles/ml \geq 4µm(c) with \leq 5% co-incidence error (ISO 11171) |
| Sample viscosity (max) | 64 mm²/s (using internal pump), 200 mm²/s (pressure fed @ 3 BarG) (SA1950-0 Sample Delivery System is available as an accessory) |
| Sample volume (typ) | 80 ml for ASTM D7619 & IP 565, from 20 ml for other methods (includes flush cycles) |
| Sample delivery | Integral Dual Piston Pump (DPS) downstream of the cell |
| Sample flow rate | 30 ml/min ±5 ml/min |
| Data Management | |
| Results format | Cumulative, Particles/ml, ISO 4406 cleanliness codes/classes (differential when programmed via Partikel software |
| Memory | 900 result memory Date/time indexed (last 20 tests can be viewed on screen) Download to PC/laptop port or ProTrend software and print via internal printer |
| Connectivity | USB Type B - connection to PC for use with the software suite |
| Number of calibration points | 16 (MTD) |
| Power requirements | |
| Voltage | 12 Vdc Optional 12 Vdc battery and charger (SA1816-0) |
| Physical | |
| Size (HxWxD) / Weight | 250 x 145 x 350 mm / 7.4 kg |
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