



PTT.002

Introduction:

Oil particle counter is an upgraded model, the instrument is based on GB/T 18854-2002 (ISO11171-1999) and other standards.

It is developed using the counting principle of the photoresist (shading) method, which fully conforms to the corresponding national military standards, national standards and international standards.

It can provide fast, accurate, reliable and repeatable test results and complete pollution monitoring and analysis reports. It can be widely used in aviation, aerospace, electric power, petroleum, chemical industry, transportation, port, metallurgy, machinery, automobile manufacturing and other fields.



Key Features:

- 1. Adopt the counting principle of the photoresist (shading) method formulated by the International Hydraulic Standards Committee.
- 2. High-precision laser sensor, wide test range, stable performance, low noise and high resolution.
- 3. High-pressure syringe pump sampling method is adopted, the sampling volume can be set by itself, the sampling speed is stable, and the sampling accuracy is high.
- 4. The positive and negative pressure combined sample injection system can realize sample degassing, which is suitable for testing samples of different viscosities.
- 5. Built-in pressure sensor, you can set the pressure value, and automatically judge the air pressure in the cabin to ensure safety.
- 6. Built-in air purification system to ensure that the test is not polluted.
- 7. Built-in multiple calibration curves, compatible with all common domestic and foreign standards for calibration
- 8. Built-in GJB-420A, GJB-420B, NAS1638 (AS4059F differential), ISO4406 (GB/T14039), SAE4059E and GOCT17216-71 and other common standards, support custom standard testing, and can set the required standards according to customer needs.
- 9. Built-in data analysis system, one test can give all standard test data and pollution level.
- 10. Built-in viscosity, moisture and temperature sensor modules provide viscosity, moisture content saturation, ppm value and temperature reference value while accurately testing particle distribution (optional).
- 11. The particle size can be arbitrarily set, with nearly 10,000 built-in particle sizes, which is convenient for particle size analysis.
- 12. Various sampling containers such as standard sampling bottles or sampling cups can be used to meet the testing requirements of different industries.
- 13. Full-function automatic color touch screen operation, simple and convenient operation.
- 14. Single-channel and multi-channel calibration can be performed to realize automatic calibration function.
- 15. With RS232 interface, it can be connected to a computer or laboratory platform for data processing.
- 16. With mass data storage and printing functions, it can store 1000 sets of data and support U disk storage of data.

Technical Specification:

- Light source: semiconductor laser
- Particle size range: 0.8 μ m~600 μ m (depending on different sensors)
- Detection channel: 16 channels, the particle size can be set arbitrarily
- Sensitivity: 0.8 μ m (ISO4402) or 3 μ m (c) (GB/T18854, ISO11171)
- Resolution: <10% (GB/T18854, ISO11171) 6.Repeatability: RSD<2%
- Sample detection viscosity: \leq 650cSt (if the viscosity is too large, it can be detected by heating or dilution method)
- Sampling volume: 0.2~1000mL, interval 0.1mL
- Sampling accuracy: better than \pm 0.5%
- Sampling speed: 5 ~ 80mL/min
- Air pressure chamber: positive and negative air pressure chamber device, realize sample degassing and high viscosity sample detection
- Maximum vacuum of air pressure chamber: -0.08Mpa
- Maximum positive pressure of air chamber: 0.8 Mpa
- Maximum particle concentration: 12000~40000 particles/mL
- Temperature (optional): Collection range: 1~100°C; Collection accuracy: 1°C
- Water activity (optional): Collection range: 1~100%RH; Collection accuracy: 1%RH
- Water content (optional): Collection range: 1~300ppm; Collection accuracy: 1ppm
- Power supply: 110~245V AC, 50Hz, 70W
- Dimensions: 340mm \times 410mm \times 650mm
- Instrument net weight: 25kg