



YUKE YK-LPC-L2 oil particle counter is an upgraded product based on LPC-L. The instrument is based on GB/T 18854-2002 (ISO11171-1999) and other standards. It is developed based on the light resistance (light blocking) counting principle and fully complies with the corresponding 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 is suitable for the detection of particle contamination of hydraulic oil, lubricating oil, fire-resistant oil, insulating oil and turbine oil. It can be widely used in aviation, aerospace, electric power, petroleum, chemical industry, transportation, ports, metallurgy, machinery, automobile manufacturing and other fields.

Main Features:

- Adopt the light resistance (shading) counting principle formulated by the International Hydraulic Standards Committee
- High-precision laser sensor, wide test range, stable performance, low noise, high resolution



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- Adopt high-pressure injection pump sampling method, the sampling volume can be set by yourself, the injection speed is stable, and the sampling accuracy is high
- Positive and negative pressure combined injection system can realize sample degassing, suitable for testing of products with different viscosities
- Built-in pressure sensor, can directly set the pressure value, and automatically judge the air pressure in the cabin to ensure safety
- The host has a built-in air purification system to ensure that the test is not contaminated, with a high degree of integration to avoid air pumps Secondary contamination caused by air tightness of connection with test system
- Built-in multiple calibration curves, compatible with all commonly used standards at home and abroad for calibration
- Built-in GJB-420A, GJB-420B, NAS1638, GB/T14039, ISO4406, SAE4059cpc, SAE4059F, SAE749D, GOCT17216, QC/T29104, JB/T9737, DLT432, HH005-2018 and more than ten commonly used standards
- Supports custom standard testing, custom standards can be tested Name and make grade determination
- Up to 64 test channels can be set at the same time according to customer needs
- Built-in data analysis system, one test can give all standard test data and contamination levels
- Can perform cleaning detection, pre-set target cleaning requirement particle concentration, display cleaning status in real time during cleaning, and automatically stop when the requirements are met
- Built-in viscosity, moisture and temperature sensor modules, while accurately testing particle distribution, provide viscosity, moisture content saturation and ppm value and temperature reference value (optional)
- Can set particle size arbitrarily, with nearly 10,000 particle sizes built in, convenient For particle size analysis
- Standard sampling bottles or sampling cups and other sampling containers can be used to meet the testing requirements of different industries
- Full-function 7-inch color touch screen operation, folding button design, support Chinese and English dual interface, simple and convenient operation
- Manual, automatic, and half-count calibration can be performed
- RS232 interface, support 485 communication, can be connected to a computer or laboratory platform for data processing
- With massive data storage and printing functions, and supports U disk storage, the data stored in this machine can be exported to a U disk
- More than 5 account settings, and separate settings for operator permissions

Specification data:

- Light source: semiconductor laser
- Particle size range: 0.8 μ m~600 μ m (calibrated according to ACFTD calibration 1~100 μ m or ISO MTD calibration 4~70 μ m(c))



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- Detection channels: 8~64 channels optional (factory default 64), arbitrarily set particle size
- Sensitivity: 0.8 μ m (ISO4402) or 3 μ m (c) (GB/T18854, ISO11171)
- Resolution: better than 6%
- Repeatability: RSD<2%
- Sample detection viscosity: \leq 650cSt (viscosity is too high and can be detected by heating or dilution method)
- Sampling volume: 0.2~6000mL, interval 0.1mL
- Sampling accuracy: better than \pm 0.2%
- Sampling speed: 5 ~80mL/min
- Air pressure chamber: positive and negative air pressure chamber device, to achieve sample degassing and high viscosity sample detection
- Maximum vacuum of air pressure chamber: 0.08Mpa
- Maximum positive pressure of air pressure chamber: 1 Mpa
- Maximum particle concentration: 12000~40000 particles/mL
- Temperature (paid option): Collection range: 1~100 $^{\circ}$ C; Collection accuracy: 1 $^{\circ}$ C
- Water activity (paid option): Collection range: 1~100%RH; Collection accuracy: 1%RH
- Water content (paid option): Collection range: 1~360ppm; Collection accuracy: 1ppm
- Detection sample temperature: 0 $^{\circ}$ C ~ 80 $^{\circ}$ C
- Working temperature: -20 $^{\circ}$ C ~ 60 $^{\circ}$ C
- Storage temperature: -30 $^{\circ}$ C ~ 80 $^{\circ}$ C
- Power supply: 110~245V AC, 50/60Hz, 70W
- Host size: 340mm \times 410mm \times 650mm
- Air pump size: 180mm \times 160mm \times 220mm
- Main unit net weight: \geq 23kg Air pump net weight: \geq 5.5kg