

YJS-150 Portable Particle Counter

Applications:

It can be used for pollution degree detection, includes hydraulic oil, aviation kerosene, lubricant oil, transformer oil (insulation oil), steam turbine oil, gear oil, engine oil, and water-based hydraulic oil, etc.

YJS-150 Portable Particle Counter is made in the principle of light extinction (or light-blockage) and used to detect the size and quantity of solid particles in liquid. It is widely applied in aviation, space, electricity, oil, chemical, transportation, port, metallurgy, machinery and automobile manufacturing for detecting contamination of solid particles for hydraulic oil, lubricating oil, transformer oil (insulating oil), turbo generator oil (turbine oil), gear oil, engine oil, jet fuel and water-based hydraulic oil, and insoluble particles for organic liquid and polymer solutions. pollution degree of oil, organic liquid and polymer solution, which can be applied in aviation, aerospace, electric power, oil, medical and other industries.

Features:

1. Adopting light blockage method theory
2. This portable particle counter can be used for detecting in laboratory or on-site and fieldwork, and also can be installed on the systems of various hydraulic drive, lubricant, oil filter system, washing system, test bench, etc, to achieve detection for online system oil cleanliness. The interface component is optional based on actual demand. It's convenient to connect with system detection point and then achieve the on-line detection.

Technology Advantage:

1. On-line detection advantage
2. Off-line detection advantage
3. Adopts light blockage method theory, it includes the performance of quick detection, strong anti-disturb, high precision, repeatability. Its high precision sensor provides high resolution power and accuracy.
4. Accurate calculate sampling system provides constant sampling velocity and accurate controlled sampling volume.
5. Easy operation and directly read the testing results. Color LCD display controlled by Integrated Industrial Control computer and touch screen operation. Build-in printer, can print detection report directly.
6. Build-in international particles pollution degree standards GB/T14039, ISO4406, NAS1638, GJB420A, GJB420B, SAE749D, FOCT1721617216, AS4059D, etc.
The standards also support customized.
7. To reduce the conversion error, stores ACFTD calibration curve, ISOMTD calibration curve, ROST calibration curve.
8. Data transmission: RS232 or RS485, can be connected with computer to transfer, store and manipulate detection data.
9. Compact structure, small and lightweight, portable, solid and durable, suitable for laboratory and field work.

Specifications:

1. Light source: Semiconducting laser narrow light detector (more accurate, steady and rapid)
2. Particle size range: 1um~100um
3. Sensitivity: 1μm (ISO4402) or 4um(C) (ISO11171)
4. Resolution: 10%
5. Off-line viscosity detection: 100cSt (With a pressure device can up to 400cSt)
6. Detection channel:
 - 1) 8 Channels: According to ISO 11171 standard, classify by ISO 4406 or SAE 4059; Size range: 4um(C)~70um(C).
 - 2) 8 channels: 4, 6, 10, 14, 21, 25, 38, 70um(C): According to ISO 4402 standard, classify by NAS1638 or GOST 17216; Size range: 1um-400um
7. Sampling volume 10ml, sampling volume accuracy: >3%
8. Detection velocity and Washing velocity: 5~80mL/min
9. Washing volume: set among 0ml ~ 90ml (minimum 1ml)
10. On-line detection pressure: 0.1~0.6MPa (With a pressure device can up to 41Mpa)
11. Power supply: 24V Rechargeable lithium battery
12. Communication Interface: RS232 or RS485
13. Testing data output: Equip with a printer and support USB download historical data.
14. Dimension: 435*304*170mm
15. Net weight: 5kg
16. Work environment temperature: -20°C ~ 60°C
17. Storage temperature: -30°C ~ 80°C