

HZJS-1B Portable Oil Particle Counter



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I. Overview

Portable Oil Particle Counter design with Laser Extinction Technology, is design to measure the particles in the oil, which include hydraulic oil, lubricating oil, transformer oil, insulating oil, turbine oil, gear oil, engine oil, kerosene and so on. It can be used in aviation, spaceflight, electric power, petroleum, chemical industry, transportation, port, metallurgy, machinery, automobile manufacturing and other fields. It also can be used to measure the particles in organic liquid and polymer solution. Large touchable screen, easy to operate.

Main application:

Laboratory oil analysis

Work shop and online oil analysis

Acceptance of hydraulic equipment and
routine maintenance

Cleaning validation of the system

Cleaning validation of components

Wear testing of hydraulic components

II. Main functions and features

1. Use laser shading principle which International Hydraulic Standards Committee specified
2. Strict sensor, large test range, stable function, low noise and high resolution
3. With the advanced sampling system of high precision injector, sample volume can be set free, stable sampling speed and strict sampling precision
4. Can be used in laboratory or field measurement, can built-in pressure relief device to use for online measurement
5. Can connect with pressure dome to degassing and measure high viscosity samples
6. Many sampling containers can be used such as standard sampling bottles, sampling cups, also can direct access to the high pressure system, to meet the requirements of different industries
7. There are 4 useful standards such as GJB 420、NAS1638、ISO4406 、SAE4059E and so on. It also can self-set standards, we also can set all the standards that user specified
8. The sizes can be set freely in the range of the calibration curves
9. With data analysis system, grand the pollution class, test data save and data printout

10. Large color LCD touch screen and user-friendly operation
11. RS232 interface, can get to computer or Lab platforms
12. Built-in lithium batteries, can use to charge for instrument operation without 220v power source

III. Technical characteristics

1. Optical source: laser
2. Size range: 0.8 μ m-500 μ m
3. Channel number: 8
4. Resolution: <10%
5. Repeatability: RSD<2%
6. Dynamic viscosity: \leq 350 cSt
7. Sampling volume: 0.2-1000ml
8. Sampling precision: \leq \pm 1%
9. Sampling speed range: 5ml/min-80ml/min
10. Pressure range: High pressure 5-420bar, Low 0-6bar
11. Negative pressure: \leq 0.08Mpa
12. Positive pressure: \leq 0.8Mpa
13. Coincidence error limit: 10000 particals/ml
14. Battery capacity: 5200mA
15. Power: AC110V~220V \pm 10%,50Hz