

YP-KLD-B portable oil pollution particles detector

Application Fields:

Aviation, construction machinery, hydraulics and pneumatics, petrochemical engineering, metallurgy and metal melting, heavy industry casting, scientific research institutions and other industries

Main Advantages:

- Using laser sensor, its detecting accuracy is high;
- ▶ With a build-in storage battery for field working;
- With both online and sample detecting methods for either in laboratory or at site;
- It is with a build-in PC microcomputer which is able to check the synthetic data, transfer the data by USB, and upgrade the system automatically without being connected to a computer additionally.
- It displays NAS,ISO,GBJ degree of pollution in color via figures and diagrams, and shows pollution variation tendency of oil liquid via the variation of pollution curve;
- Adopts large LCD touch screen display for easier operation and data presentation;
- Its build-in printer can print historical detecting data or the data being detected at any moment;
- It is small, light, portable, and one of the most cost effective products of the same kind in the world;
- It can assembly oil moisture content tester to realize particle and moisture content detection at the same time.



Technical Specifications:

Range of Flow	50~300ml/min
Viscosity Detection	10~355mm ² /s+20%
Suitable Temperature	Oil temperature 0~90℃ Ambient temperature of instrument -25~50℃ Instrument housing temperature 0~40℃ Storage temperature -40~70℃
Power Supply	220V; rechargeable batteries
Channel Format	4~8 channels
Data Processing	Hard disk storage
Running Time	0.5h (offline); 4h (online)
Online Pressure Range	0.3~3MPa (low pressure) 3~30MPa (high pressure)
Sensitivity	1μm (ISO-4402) 4μm (ISO-11171)
Pollution Criterion	ISO4406; NAS1638; GBJ420A-96
Oil Sample Volume	500ml
Suitable Humidity	Working under relative humidity:20~85%, no condensation; storage humidity: 98%
Standardization	ISO-MTD: the powder is dispersed in oil (ISO/DIS11171:1999)
Charging Time	4h

YP-KS-Z Oil quality online monitoring unit

Application:

The on-line oil monitoring system can be installed on the important equipment oil system, which can detect the moisture and particle pollution degree in the oil in real time online, and alarm exceeding the standard. Accurate and reliable data, automatic record, storage of historical data, to provide monitoring basis for oil products.

Product features:

● **Bypass detection**, does not affect the production; Detection data accurate and stable, automatic analysis and judgment, automatic alarm function

● **Data storage**, printing and remote transmission functions, independent system easy to install and maintain.

● **Dimension** (length x width x height): Wall mounted: 550 x 350 x730mm. Floor type: 600 x 600 x 1600mm

● Mounting interface: 1/4" pipe thread for oil inlet/outlet.

● Function and requirements of the detector:

Power supply: AC220V/50Hz;

Communication connection: wireless connection (RJ45, WiF, 4G) RS485(Modbus);

Data collection: moisture, pollution level, temperature; Data storage: local storage (plc), industrial cloud storage; Data monitoring: local end (HM), mobile end (Apocalypse Industrial Cloud), computer end (Apocalypse Industrial Cloud); Historical data: computer terminal view, monthly and daily trend chart; Data collection period can be set freely

● Moisture meter technical parameters:

Water activity: measuring range 0-1aw; Measurement accuracy: 0.09 aw + / - 0.03; Response time <3min

Water content: Measuring range 0 1000mg/kg (ppm), measuring accuracy ±10%

● Technical parameters of particle instrument:

Light source: semiconductor laser; Detection range 1... 100um or 4-70um; Sensitivity 1um(ISO 4402) or 4um(GB/T18854-2002, ISO 11171)

Detection standard: ISO4406,NAS 1638. GJB420.2~10MPa OA-96. GJB420B-06; Particle size: 1um 100um.

Counting accuracy: ±0.5 pollution level on-line monitoring pressure

Typical applications: metallurgy, electric power, shipbuilding, chemical industry, injection molding, machining, petroleum, aerospace, military equipment and other oil quality detection, record and alarm

