

# Online Oil Particle Counter Sensor

For the detection of solid particles in hydraulic, lubricating, transformer, insulating, turbine, gear, and engine oil; kerosene, water-based hydraulic oil and detection of particles and impurities in organic liquids.

## Detection Principle:

Using the photoresistance method, specified by ISO4402/ISO11171 to test the oil pollution degree one is provided fast detection speed, high precision and good repeatability.



## Specifications:

Light source	Semiconductor laser
Testing range	1-100 $\mu$ m or 4-70 $\mu$ m ©
Sensitivity	1 $\mu$ m (ISO4402) or (C) (ISO11171, GB/T18854-2002)
Standards	Built-in standards: GJB420A-96, GJB420B-06, NAS1638, ISO4406
Particle size range	1 $\mu$ m, 2 $\mu$ m, 5 $\mu$ m, 10 $\mu$ m, 15 $\mu$ m, 25 $\mu$ m, 50 $\mu$ m, 100 $\mu$ m, 4 $\mu$ m(c), 4.6 $\mu$ m(c), 6 $\mu$ m(c), 10 $\mu$ m(c), 14 $\mu$ m(c), 21 $\mu$ m(c), 38 $\mu$ m(c), 70 $\mu$ m©
Accuracy	$\pm$ 0.5 pollution degree
Signal output	RS485 Modbus RTU
Online pressure	0-10MPa, 0-40MPa (with pressure reducing valve)
Detection flow speed	50-300mL/min
Oil temperature	<80°C
Environmental	
Temperature	-30°C-60°C
Storage temperature	55°C-80°C
Power	DC 9V, 1000mA
Size	100mm×75mm×71mm (L x W x H )
Humidity	Operational humidity: 20%-85%, non-condensing Storage humidity:98%
Interface mode	Standard high pressure
Kit includes	1 sensor, 1m cable, 2m oil inlet pipe, 2m outlet pipe

