

Oil-Mon Sensor

All-in One Sensor for Contamination and Degradation



All-in One Sensor

Particle/ Oxidation / Water / Temperature Monitoring Sensor

Particle and water contamination of used oil is the most deadly source of contamination. It generates abnormal wear of the equipment and malfunction of the hydraulic system. Particularly, water contamination brings abnormal wear of the equipment caused by corrosion and destruction of the lubricating film. Also, water contamination badly affects the lubricating oil itself and additives, so it must be strictly controlled and removed.

Also, oxidation speeds up degradation of oil and generates varnish. Varnish blocks oil flow and destroy lubricating film formed between drive part and fixed part of the equipment. Metal to metal contact produces abnormal wear and lead to equipment failure eventually.

LubricationPlus **Oil-Mon Sensor** diagnoses and monitors status of degradation, particle and water contamination of used oil in real time, which detects four factors by single sensor.

Therefore, it is very important to find out root cause and take prompt action at early stage. Real-time monitoring of oil degradation and contamination with **Oil-Mon Sensor** can prevent catastrophic failures and extend the life of the equipment.



[Sensor Probe and Controller]

Application

- HPU (Hydraulic Power Unit)
- Air Compressor
- Wind Turbine
- Gearbox
- Bearing
- 4-stroke Diesel Engine
- Pump
- Other Lubrication Equipment

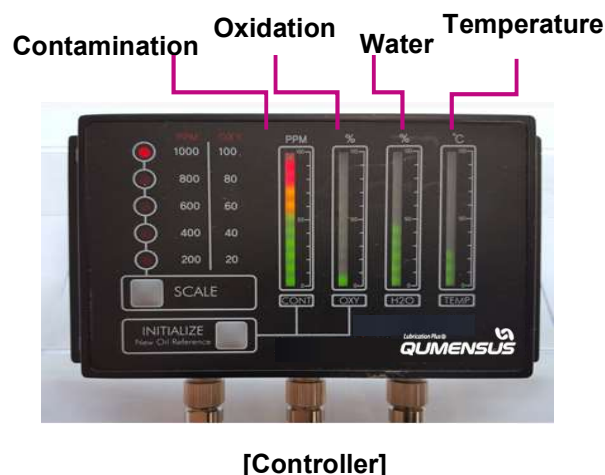
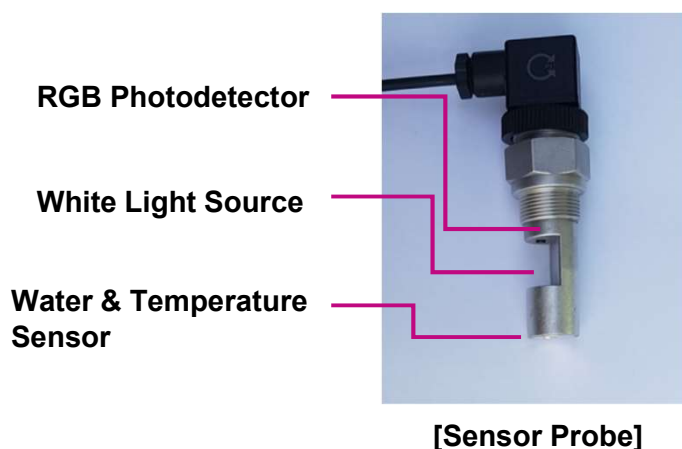
Features

- Measure multiple items by one sensor (4 items)
- Can initialize and set maximum scale in the controller
- Easy to check visually the measuring values on the controller
- Alarm sounds when an alarm occurs
- Real-time data transmission by connecting to PC

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Lubrication Plus®
QUMENSUS



Specification

• Contamination

- Range: 0 ~ 1,000ppm (0 ~ 100%)
- Accuracy: 20ppm

• Oxidation

- Range: 0 ~ 100%

• Water (Relative Humidity)

- Range: 0 ~ 100% RH
- Accuracy: $\pm 3\%$ RH

• Temperature

- Range: $-20^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- Accuracy: max. $\pm 2^{\circ}\text{C}$

• Electrical Specification

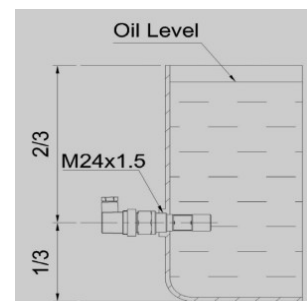
- Input Voltage: 12 ~ 36 DCV
- Output: 7V DC, max. 700 mA
- Data Interface: RS485
- Working temperature: $-20 \sim 70^{\circ}\text{C}$

• Mechanical Specification

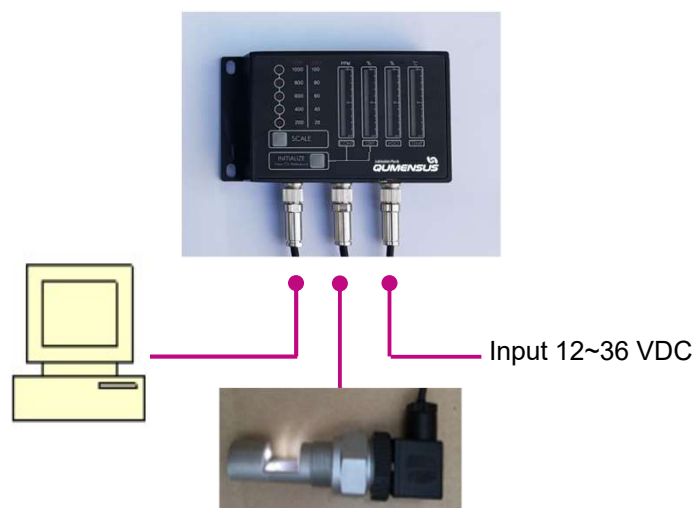
- Probe working pressure: Max. 10 bar
- Waterproof Specification: IP68
- Controller dimension : 120 x 80 x 27 mm
- Weight: 275g

Installation

- Can be installed on the tank or piping with M24 x 1.5
- Recommend to install where there is flow. Avoid bottom of the tank or where there are air bubbles.



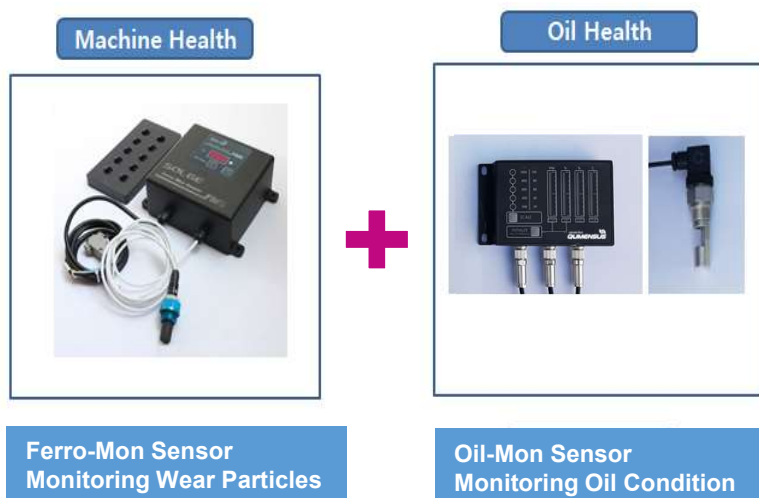
Connection to PC



- Oil-Mon sensor can be connected to PC to change settings. Measurement data can be transferred to PC in real time.
- Internal Flash Memory : 64K Bytes
- SD Card : 8G Bytes

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Synergy when use in combination with Ferro-Mon Sensor

Oil-Mon sensor monitors oil condition, whilst Ferro-Mon sensor monitors machinery condition. Combined use of Oil-Mon sensor and Ferro-Mon sensor will be very useful tool and bring synergy effect for stable operation of the equipment

It is pro-active maintenance solution for the equipment by diagnosing and analyzing both oil and equipment condition.

Ordering Code

Items	Components	Part Number
OIL-Mon Assembly	Probe, Control Box, Cable(3m)	SOL-OMA-00
Sensor Probe	Probe	SOL-OMPR-01
Control Box	Controller, Display Monitor	SOL-OMMN-01
PC Connection Cable	Cable (X m)	SOL-OMCB-03
Power Cable	Cable (X m)	SOL-OMCB-03
Probe Cable	Cable (X m)	SOL-OMCB-03



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