



## PREDICTING PROBLEMS *BEFORE* THEY HAPPEN

Our OilAlert oil condition sensor provides real-time monitoring of any lubricating oil or hydraulic fluid.

The sensor measures both an oil's capacitance and conductance, a combined measure known as permittivity. The combined data provides a reading that is, on average, up to 60 times more sensitive than di-electric sensors that only measure capacitance.

### PROVEN TECHNOLOGY

The OilAlert sensor is built on patented technology in use for over 10 years.

### INDEPENDENTLY TESTED

The OilAlert sensor has undertaken rigorous independent testing to verify the outstanding performance in a wide variety of applications.

### FULLY CERTIFIED

The OilAlert sensor is fully certified to International standards to work in most commercial and industrial environments.

### EXTREMELY SENSITIVE

The OilAlert sensor the sensor is over 60 times more sensitive to oil contamination than di-electric sensors.

### ROBUST AND RELIABLE

The OilAlert sensor is designed and built to withstand the harshest industrial environments.

It is resistant to impact, temperature, shock and vibration.

# TECHNICAL SPECIFICATIONS

## PHYSICAL CHARACTERISTICS

Material	Stainless Steel AISI304
Dimensions	90mm x 37mm (L x W)
Weight	160g

## POWER

Power supply	9-30 V DC
Average power consumption	0.4W
Power consumption	30mA continuous
Analog output	4-20mA

## DIGITAL OUTPUT

RS232	9600 baud bi-directional
RS485	9600 baud half duplex
Modbus	on RS232 & RS485
CANbus	CANopen protocol

## ENVIRONMENTAL

Protection	IP67 when connected
Operating Temp	-20°C to +120°C
External Pressure	0 bar to 20 bar
Fluid Pressure	up to 20 bar
Fluid Type	Any mineral, semi-synthetic or synthetic oil

## DETECTION

Detection for	<ul style="list-style-type: none"> <li>Oxidisation</li> <li>Water Contamination</li> <li>Glycol Contamination</li> <li>Fuel Contamination</li> <li>Dirt Contamination</li> <li>TAN</li> <li>TBN</li> <li>Viscosity Breakdown</li> <li>Wear Particles</li> <li>Soot</li> <li>Oil Temperature</li> </ul>
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## ELECTRICAL CONNECTION

Type	6 Pin Lumberg
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## MECHANICAL CONNECTION

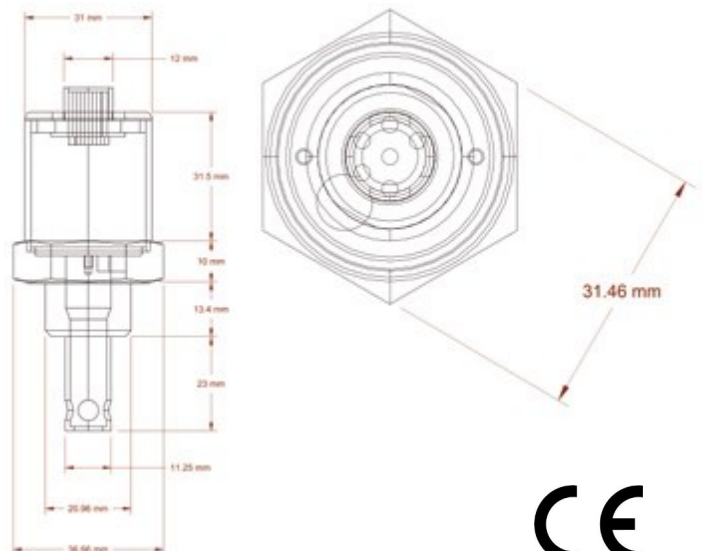
Type	<ul style="list-style-type: none"> <li>M32 Hex Head</li> <li>3/8" or 1/2" BSP Thread</li> <li>DIN 3869 Ring Seal or Dowty Seal</li> </ul>
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## OIL MEASUREMENT

OQUs	10 to 100
Accuracy	Repeatability +-3%

## STANDARDS

Conformity	<ul style="list-style-type: none"> <li>BS EN 60068-2-30 (Test Db - Cyclic Humidity)</li> <li>BS EN 60068-2-6 (Test Fc - Sine Vibration)</li> <li>BS EN 60068-2-27 (Test Ea - Mechanical Shock)</li> <li>EN 61000-6-4:2007 (Generic Emissions Standard for Industrial Environments)</li> <li>EN 61000-6-2:2005 (Generic Immunity Standard for Industrial Environments)</li> </ul>
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## Demp

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