

OilAlert oil condition sensor



Description

IPU Group's 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 dielectric sensors that only measure capacitance.

Technical Highlights

- **Proven Technology:** based on a patented method which has been used for over 10 years.
- **Extremely Sensitive:** the sensor is over 60 times more sensitive to oil contamination than dielectric sensors.
- **Robust and Reliable:** designed and built to withstand the harshest of industrial environments; resistant to impact, temperature, shock and vibration.
- **Independently Tested:** has undertaken rigorous independent testing to verify the outstanding performance in a wide variety of applications.
- **Fully Certified:** the sensor is fully certified to International standards to work in most commercial and industrial environments.

Call IPU's Fuel Conditioning Division on 0121 511 0400

Technical specifications: OilAlert oil condition sensor

Physical

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

Power

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

- Oxidisation
- Contamination - Water, Glycol, Fuel & Dirt
- TAN/TBN
- Viscosity Breakdown
- Wear Particles
- Soot
- Oil Temperature

Electrical Connection

6 Pin Lumberg

Mechanical Connection

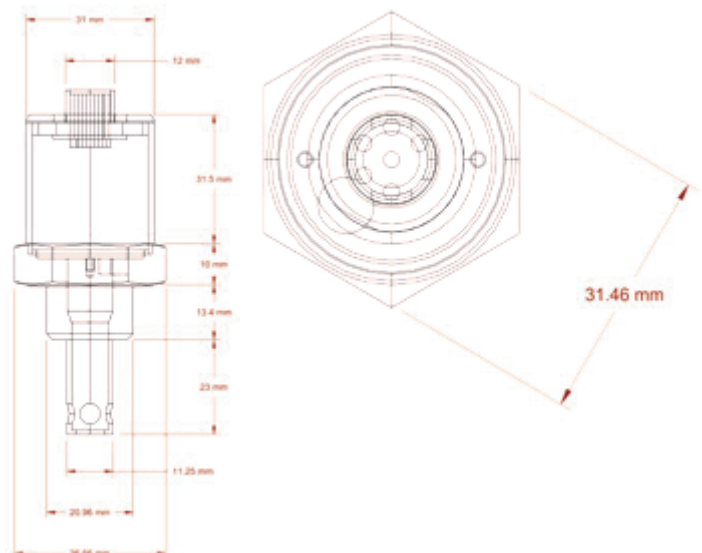
M32 Hex Head
3/8" or 1/2" BSP Thread
DIN 3869 Ring Seal or Dowty Seal

Oil Measurement

OQUs: -10 to 100
Accuracy: Repeatability +-3%

Standards

BS EN 60068-2-30 (Test Db - Cyclic Humidity)
BS EN 60068-2-6 (Test Fc - Sine Vibration)
BS EN 60068-2-27 (Test Ea - Mechanical Shock)
EN 61000-6-4:2007 (Generic Emissions Standard for Industrial Environments)
EN 61000-6-2:2005 (Generic Immunity Standard for Industrial Environments)



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