



Extend oil use



Reduce maintenance



Reduce breakdowns



Detect contamination

PRODUCT DESCRIPTION

SENSE2 is a complete real-time oil condition analysis and monitoring kit that can be easily installed on any equipment. It enables you to immediately secure the benefits of real-time oil condition analysis and monitoring: reduced oil use, reduced maintenance costs, pre-emptive fault detection.

Actual oil condition and remaining oil life is continuously analysed, logged and displayed in real time. Configurable analytics trigger alerts in the event of unexpected contamination and/or oil wear. The built-in data logger and wireless interfaces make downloading data for further analysis simple.

SENSE2 is a complete plug-and-play solution that can be fitted to any equipment operating in any environment using any type of oil. Everything is included for quick and easy installation.

WHAT'S IN THE BOX?

- **OQS Sensor** (Or CAB-SD02 long-nosed version)
choice of ½ in BSPP, ½ in NPT, M18 x 1.5, 7/8-14 UNF threads
- **OQDe-G2 Display Express**
- USB with **TD Config** configuration software
- Universal Configuration Cable (**CAB-J**)
- Sensor to display cable, 2 m (**CAB-SD02**)
- Display to configuration cable (**CAB-M**)
- Sensor to bare ends cable, 2m (**CAB-SB02**)
- International mains to 15VDC Power Supply (**PSP-1**)
- Quick Start Guide

KEY FEATURES

- **Real-time oil analysis**
Continuous real-time oil condition analysis with 0.01% sensitivity, detecting and reporting changes caused by wear and/or contamination.
- **Any oil type and equipment**
SENSE2 can be fitted and used on any equipment type operating in any environment using any oil type – mineral or synthetic.
- **Event alerts**
Immediate detection and alert in the event of contamination and or unseen equipment issues which may lead to breakdowns or damage.
- **Maintenance prediction**
Accurately predict when equipment needs maintenance based upon rate of change and accurate EoL definition.

BENEFITS

- **Reduce maintenance costs**
Enables you to predict and pinpoint when equipment requires maintenance and oil is truly at the end of its life. This typically enables you to safely extend intervals between maintenance and reduce associated costs by approximately 30% per year.
- **Reduced downtime**
Unseen equipment issues cause subtle changes to oil condition, which are detected and alerted, enabling pre-emptive maintenance before failure or major damage and or accelerated wear.
- **Environmental (ESG) targets**
Safely maximise oil use to reduce consumption by approximately 30% per annum. Reduce parts consumption and extend equipment life.

TECHNICAL DATA

Product information

Name	SENSE2 Display Kit
Product No.	SE2-###-###

Physical

Material	Heat resistant polycarbonate
Dimensions	151 x 66 x 42 mm (L x W x H)
Weight	300 g

Electrical

Supply	+9-30 V DC
Consumption	0.4 W average, continuous 200mA

Data output/input

Analog output	1 x 4-20 mA for Oil Condition 1 x 4-20 mA for Oil Temperature
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Data logging

Logging interval	5 minutes
Battery backup	~10 years (internal clock only)
Data download	Via WiFi using any internet-enabled device
Real-time clock	Yes

Environmental

Operating temperature	-30 °C to +65 °C (-22 °F +149 °F)
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Display

Oil condition	Tan Delta Number (TDN)
Oil temperature	-20 °C to +120 °C (-4 °F to +248 °F)
Oil life remaining	Days
Status indicator	LED

Network

Supported WiFi bands	802.11 b/g/n 2.4 GHz
WiFi security	WPA1/WPA2
IP addressing	IPv4 DHCP or static
Operating modes	Client or hotspot
Integration options	JSON API

Standards and certification

Water and dust	Sensor IP67 when connected BS EN 60529:1992+A2:2013
Shock and vibration	BS EN 60068-2-30 (Test Db - Cyc.Hum.) BS EN 60068-2-6 (Test Fc - Sine Vib.) BS EN 60068-2-27 (Test Ea - Mech. Shock)
EMC	EN 61000-6-4:2007 (generic emissions standard for industrial environments) EN 61000-6-2:2005 (generic immunity standard for industrial environments) EN 61000-6-2:2007 (generic immunity standard for industrial environments) EN 300 328 v1.8.1 (transferable electromagnetic compatibility for wideband data transmission equipment operating in the 2.4 GHz ISM band and using wideband modulation techniques)
Conformity	CE & UKCA Marked RoHS compliant

DIMENSIONS, INSTALLATION & CONNECTIONS

