



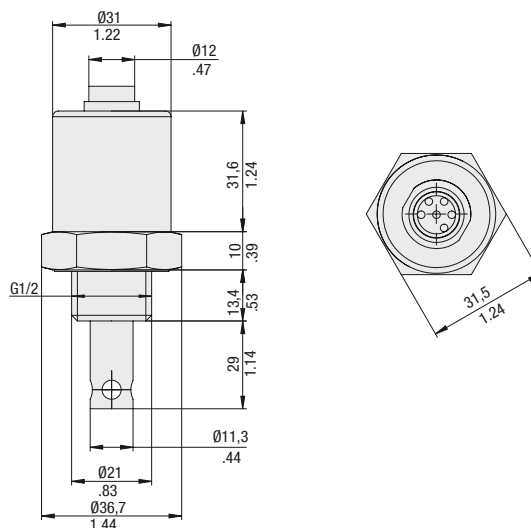
Local Solutions For Individual Customers Worldwide



Oil Condition Sensor OCS and Accessories

Product Catalogue

Oil Condition Sensor - Type OCS



Product Description

The demand for effective solutions to monitor hydraulic and lubricant systems is constantly increasing. Oil condition – or the result of the natural aging of the substance, decomposition of additives and contamination by foreign particles – is therefore the significant factor in determining the optimal point in time for an oil change. Changing the fluid too early generates unnecessary costs; changing it too late increases wear within the system and can lead to component failures and therefore even higher costs.

The Oil Condition Sensor OCS is designed for continuous monitoring of hydraulic systems. Permanently installed in the system the OCS sensor monitors the condition of hydraulic fluids and lubricating oils in real time, whereby water ingress and oxidation can be detected in time. The OCS sensor is 60 times more sensitive than dielectric sensors on increasing contamination and protects the system from cost-intensive downtimes and reduces machine downtimes. Thanks to its robust construction the OCS sensor can even be used under extreme conditions with temperatures from -20 °C to +120 °C (-4 °F to +248 °F).

Features

- Robust construction
- Usage under extreme conditions with temperatures from -20 °C to +120 °C / -4 °F to +248 °F
- Suitable for use at operating pressures up to 20 bar / 290 PSI

Technical Data

Materials

- Stainless Steel (corrosion-resistant Steel) AISI304, 1.4301

Dimensions

- 90 x 37 mm / 3.54 x 1.46 in

Weight

- 160 g / .35 lbs

Sealing Material

- FPM (Viton®)

Max. Burst Pressure

- 20 bar / 290 PSI

Media Temperature

- -20 °C ... +120 °C / -4 °F ... +248 °F

Media Compatibility

- Mineral and Synthetic Oil
(Please consult STAUFF for other fluids)

Process Connection

- G1/2

Electrical Connection

- 6-pin connection plug

Power Supply

- 9 ... 30 V DC

Analog Output

- 4 ... 20 mA

Computer Interface

- RS485

Protection Rating

- IP67

Order Code - Component

OCS I-M-B08-M16

①

① Series

Oil Condition Sensor (only) **OCS I-M-B08-M16**

Order Code - Kit

OCS I - M - P - B08

①

②

③

④

① Series

Oil Condition Sensor **OCS I**

② Type

Mineral and Synthetic Oil **M**

Note: Please consult STAUFF for other fluids.

③ Electrical Connection

Oil Condition Sensor OCS with Oil Condition Display OCD **D**

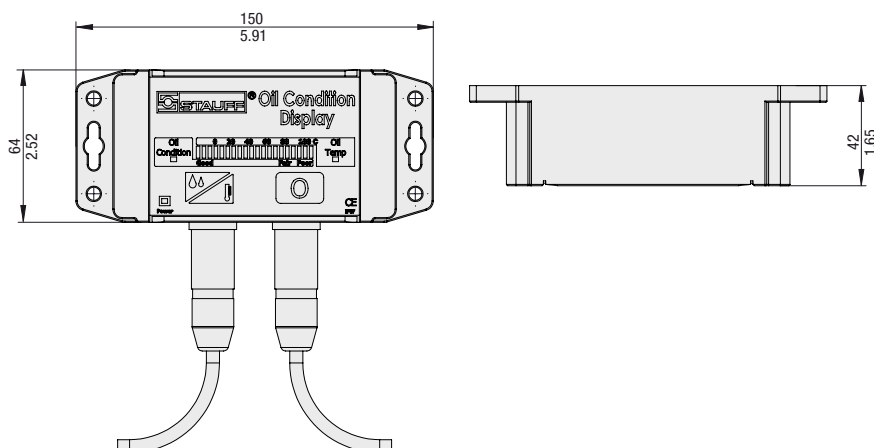
Oil Condition Sensor OCS with flying leads **FL**

Oil Condition Sensor OCS with USB Interface **P**

④ Process Connection

G1/2 **B08**

Oil Condition Display ■ Type OCD



Technical Data

Materials

- Polycarbonate

Dimensions

- 150 x 64 x 42 mm / 5.91 x 2.52 x 1.65 in

Weight

- 250 g / .35 lbs

Power Supply

- 9 ... 30 V DC

Analog Output

- 4 ... 20 mA

Computer Interface

- RS485, 9600 Baud (half duplex)

Mounting

- Mounting flange on back side
150 x 64 mm / 5.91 x 2.52 in

Protection Rating

- IP67

Display

- Multi-segment LED indicator
(20 segments: 13 green LED, 4 amber LED,
3 red LED, 1 red LED (Unit ON))

Product Description

The optional Oil Condition Display OCD unit shows the values measured by the sensor using a multi-segment LED indicator, which makes the oil condition apparent at a glance and without any connection to a PC.

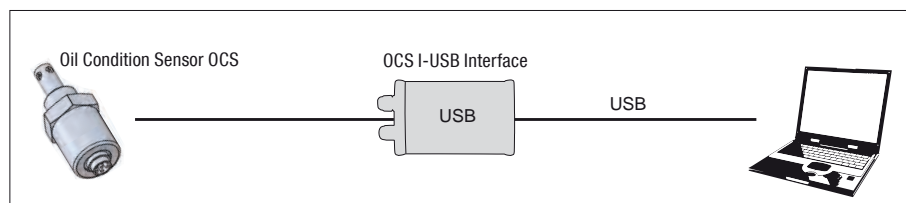
The display unit also has integrated measurement value memory, from which the data can be subsequently transferred for assessment via USB.

USB Interface ■ Type OCS I-USB Interface

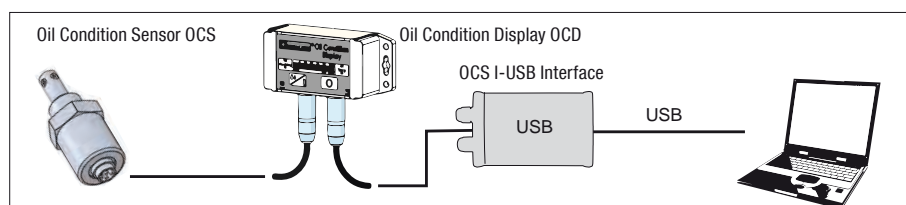
Product Description

The OCS sensor respectively the OCD display can be connected to a PC or laptop using the OCS I-USB Interface. It allows you to download the measured data and to carry out programming using the supplied software.

The OCS I-USB Interface was not designed for a permanent operating and should be used for programming the OCS sensor respectively download the measured data from the OCD display only.



Connection diagram: OCS sensor to a PC via OCS I-USB Interface.



Connection diagram: OCS sensor and OCD display to a PC via OCS I-USB Interface.

Order Codes

Accessories / Spare Parts

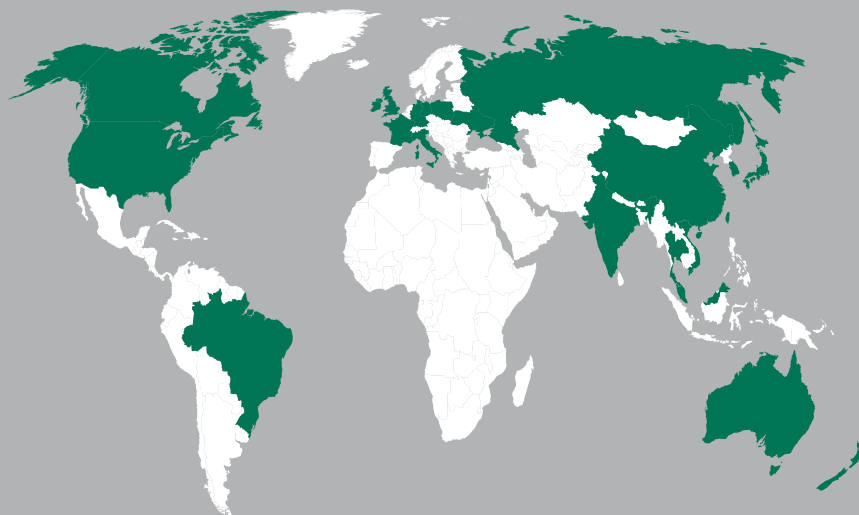
①

① Type of Accessories / Spare Parts

Oil Condition Display OCD	OCD
Connection cable to connect the OCS sensor with a OCD display (Length 2 m / 6.56 ft)	OCS I-CAB-Display
Sensor cable with flying leads (Length 2 m / 6.56 ft)	OCS I-CAB-FL
USB interface module for a direct connection to a PC (Length 1 m / 3.28 ft)	OCS I-USB Interface



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