

CJC® Oil Contamination Monitor, OCM15

Advanced Online Particle Counter



Product Sheet

APPLICATION

The **CJC® Oil Contamination Monitor, OCM15** sensor module measures particles and water mounted in connection to a CJC® Offline Oil Filter, used for **diesel oils, turbine lube oils, hydraulic oils and gear oils**. Data can be online monitored via CJC® View or SCADA System. Furthermore, we offer remote online monitoring with CJC® Trender Basic or CJC® Trender Pro (optional).

BENEFITS

- Earliest possible warnings of wear generation
- Condition based maintenance
- Avoid breakdowns and reduce severity of failures
- Valid and reliable online oil condition data
- Does not count air bubbles as particles
- Increase your ROI and protect the investment

Monitoring the smallest micron particles using the OCM15 gives the earliest possible warning for breakdowns. Major damage can be PRE-DICTED and PREVENTED by stopping and repairing early in the wear process. This obviously will improve PROFIT.

FUNCTION

The OCM15 measures according to the ISO: 4406 standard. The technology is specially designed for high viscous oils and is suited to measure in oils with large amounts of air bubbles, as they are not included in the counting. The water sensor measures relative humidity (%RH) in oil. Data storage approx. 4000 time-stamped tests in the internal OCM15 memory. Via a USBi connector, data can be transferred to a PC and explored in the CJC® View Program. The OCM15 monitors upstream the filter i.e. on the dirty side.

INSTALLATION

The OCM15 is mounted on the CJC® HDU 27/- filter base. Due to this, the flow will be stable over a large viscosity range, enabling the sensor to yield accurate readings, regardless of the oil conditions. Available for retrofit.

DATA & COMMUNICATION

The CJC® OCM15 data is available via the integrated RS 485 Modbus RTU interface. Modbus RTU is a widely used protocol, which makes connection easy to any SCADA system.

RECALIBRATION & MAINTENANCE

The OCM15 should be serviced and recalibrated at least every second year by returning the OCM15 to C.C.JENSEN A/S (further info on page 2).



Oil Contamination Monitor **CJC® OCM15**
mounted on a CJC® Fine Filter HDU 27/27

TECHNICAL DATA

GENERAL	
Particle counter	yes
Humidity sensor (%RH)	yes *)
Oil temp. sensor	yes
Oil types	Diesel oils, turbine lube oils, hydraulic oils and gear oils
Display	Yes
Dimension, l/w/h without oil filter	242 x 188 x 253 mm
Dimension, l/w/h with HDU 27/27 Oil Filter	533 x 509 x 600 mm
ENVIRONMENT	
Viscosity range	<1000 cSt
Operating oil temp.	-20°C to 80°C (-4 to 176°F)
Operating ambient temp.	-20°C to 50°C (-4 to 122°F)
PARTICLES	
Particle ranges (ISO 4406)	> 4, 6, 14, 21, 25, 38, 50, 70 & up to 250 µm
Cleanliness units	ISO / NAS / SAE
Calibration, acc. to	ISO 11171
Repeatability	0.5 ISO code (min. concentr. ISO MTD 2.8 mg/L, max. ISO code=24)
Sampling intervals	Default each 5 min.
Sensor principle	Precision LED Based Light Extinction
ELECTRIC	
Supply voltage	24 VDC

*) Approx <75%. Be aware that humidity sensor can be permanently damaged if exposed to high water content for a longer period.

MOTOR VOLTAGES

Voltage \ Frequency available	50 Hz	60 Hz
3 x 230 / 400 V	●	
3 x 400 - 480 V		●
3 x 400 / 690 V	●	●
3 x 575 V		●
3 x 600 V		●
1 x 230 V	●	●
1 x 120 V		●

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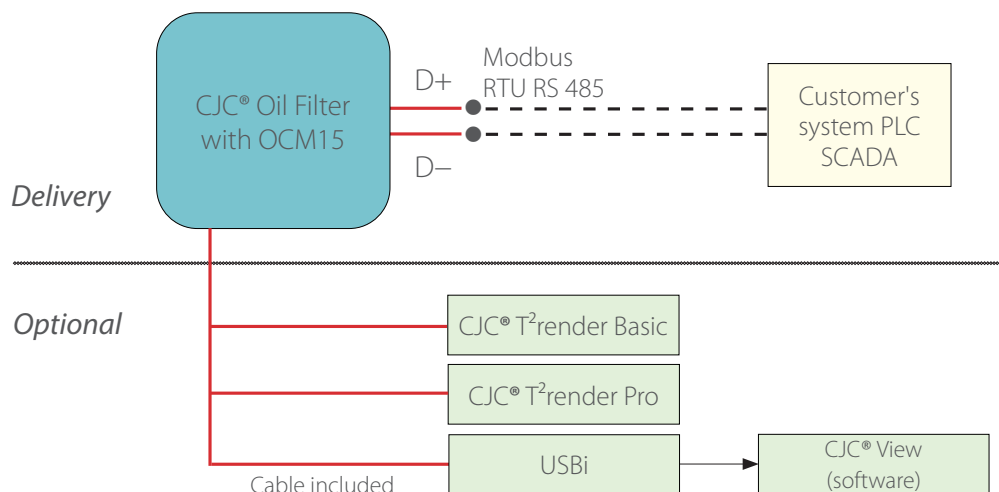
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DATA & COMMUNICATION



OCM15 RECALIBRATION

The OCM15 must be recalibrated
at least every second year
to ensure optimum
oil contamination monitoring

Handling process:

1. Order a new/recalibrated OCM15
2. Dismantle the old OCM15 (NB: only the sensor unit)
Mount the new/recalibrated OCM15 sensor unit
and change CJC® Filter Insert
3. Return the old OCM15 sensor unit to C.C.JENSEN A/S

Please find a guide how to at:
www.cjc.dk/OCM



Box containing the new/calibrated
CJC® OCM15 sensor module
(used as a return box as well)

HOW TO ORDER

Contact your C.C.JENSEN Sales representative at
www.cjc.dk/contact or contact us at
FilterTechnicalSupport@cjc.dk to receive more information.

Article no.	
OCM15 mounted on HDU 27/- PV	FA7617200-XYZQ
OCM15 Recalibration and Maintenance	FR33246
USBi	FD33224/1



Predict|Prevent|Profit
with
CJC® OCM15

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