# 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 **mineral oils and petroleum-based fluids.**
Data can be online monitored via CJC® View or SCADA System. Furthermore, we offer remote online monitoring with CJC® T²render Basic or CJC® T²render 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 PREDICTED 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 an 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).

| 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 | | ● |

*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** | Mineral oils and petroleum-based fluids |
| **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.*

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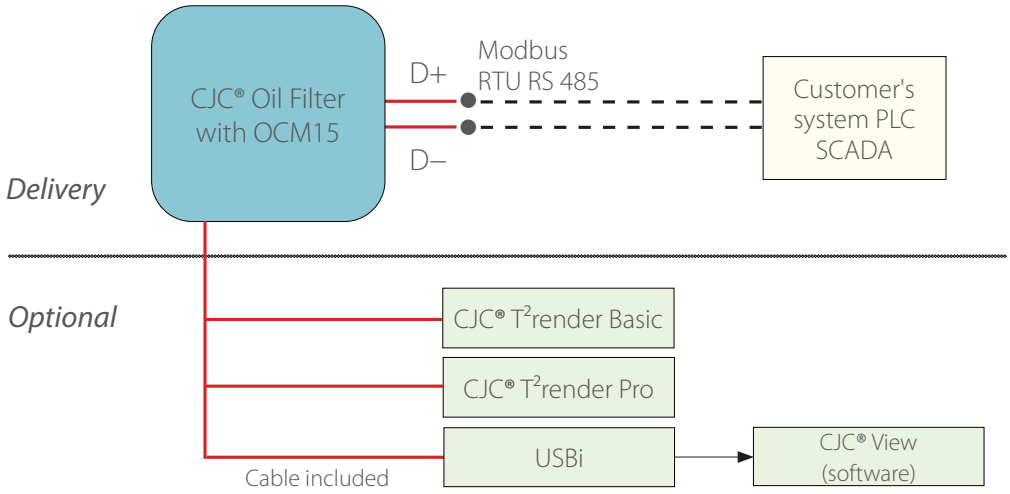
## DATA & COMMUNICATION




## 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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