



CJC® Oil Contamination Monitor OCM15

Plus Monitoring - Particle counter with humidity and temperature sensor

Product Sheet

APPLICATION

The CJC® Oil Contamination Monitor OCM15, as a plus monitoring solution, precisely detects the most critical oil condition values in real-time and ensures the highest oil cleanliness levels.

ADVANTAGES

By installing the CJC® OCM15 with a CJC® Oil Care System in an off-line circuit, you combine **proactive and condition-based maintenance**. Our solution ...

- maximises wear protection and oil lifetime due to efficient oil care and continuous monitoring of the oil condition – at all times, clean and dry oil
- increases machine reliability and lifetime and improves process stability
- delivers real-time data as an early alert system for application and machine-specific limit values
- enables individual and transparent data interpretation to detect harmful effects and changes from normal conditions at the earliest and to minimise the impact of them
- enables plannable, calculable maintenance instead of unplanned, cost-intensive failures and downtime
- offers high-quality sensors to ensure exact and reliable values regarding particle and water content, as well as oil temperature
- optimises with online monitoring as best practice method your oil analysis and oil management program
- increases savings and accelerates return on investment

FEATURES

The integrated CJC® Sensor Technology for continuous oil contamination and condition monitoring measures:

- Particle content (*lowest micrometre range*)
- Humidity (*rH in %*)
- Temperature

The CJC® OCM15 is installed in combination with a CJC® Oil Care System in the off-line circuit. Due to the constant volume flow and stable low-pressure conditions, exact values are measured independent of viscosity, air entrainment and oil condition.

The CJC® OCM15 is installed upstream of the CJC® Oil Care System (dirty side). Quick and easy retrofit is possible.

The CJC® Oil Care System continuously removes particle, water and oil degradation products (varnish, oxidation residues, acids) from the oil. It achieves the highest oil cleanliness levels in the shortest time, independent from the various industries.

DATA TRANSFER & ONLINE-MONITORING

We deliver the CJC® OCM15 with integrated RS 485 Modbus RTU protocol as the interface for fast communication with SCADA/PLC or other custom expert systems. For further information, see page 2.

Optional:

- Data transfer via USBi and monitoring via CJC® View Software
- Data transfer and monitoring via CJC® T2render Cloud



CJC® OCM15 installed at a CJC® Oil Care System 27/27

TECHNICAL DATA

Application	
Oil types	Mineral oils and petroleum-based fluids • suitable for oils with a large amount of air bubbles (air entrainment)
Viscosity range	< 1,000 cSt
Oil temperature	max. 80 °C
Sensor technology	
Sensors	• Particle counter • Humidity sensor (<i>rH in %</i>) * • Temperature sensor
Sensor principle	Precision LED based on light-extinction
Particle sizes	> 4, 6, 14, 21, 25, 38, 50, 70 up to 250 µm
Classification of particles	ISO 4406 / NAS 1638 / SAE AS 4059
Calibration	according to ISO 11171
Repeatability	0.5 ISO Code (<i>min. concentration ISO MTD 2.8 mg/L, max. ISO Code=24</i>)
Sampling intervals	individual adjustable
Display	Yes
Electrical connection	
Supply voltage	AC / DC (<i>incl. motor protection switch</i>)

* Note – humidity sensor: detection limit max. 75 % rH. Be aware that the humidity sensor can be permanently damaged if exposed to high water content for a longer period.

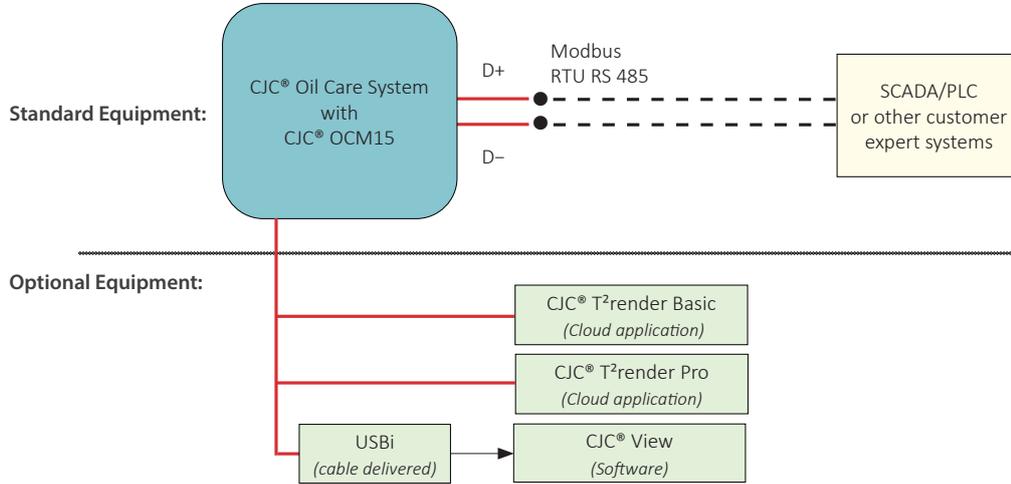


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For further informationen, see following product sheets:

- CJC® T²render Clouds (Ident No. PDMO4008)
- CJC® View Software (Ident No. PDMO4003)



**PROACTIVE AND PREDICTIVE MAINTENANCE FOR
IMPROVED PRODUCTIVITY AND PROCESS STABILITY AND
ACCELERATED RETURN ON INVESTMENT**

INSTALLATION, OPERATION & MAINTENANCE

We deliver the CJC® Oil Contamination Monitor OCM15 proofed with specified data interfaces.

The control of the data logging/measurement data acquisition is incumbent upon the equipment owner.

The sensors should be recalibrated at least every second year to ensure exact and reliable oil contamination and condition values. For the recalibration period, you will receive corresponding sensors for use. Contact us!

SERVICE

Our technical expert team is always ready to support and help if needed. We offer the following services: installation, commissioning, filter insert replacement, monitoring, data analysis and interpretation.

ENQUIRIES & ORDERS

Contact the technical sales team of Karberg & Hennemann GmbH & Co. KG:

<https://www.cjc.de/en/contact-person-germany/>

or write an email:

fluide@cjc.de