



CJC® Condition Monitoring Unit CMU

Premium Monitoring - exact oil condition values due to high data density

Product Sheet

APPLICATION

The CJC® Condition Monitoring Unit CMU, as the premium monitoring solution, exactly detects comprehensive oil condition values in real-time and ensures the highest oil cleanliness levels.

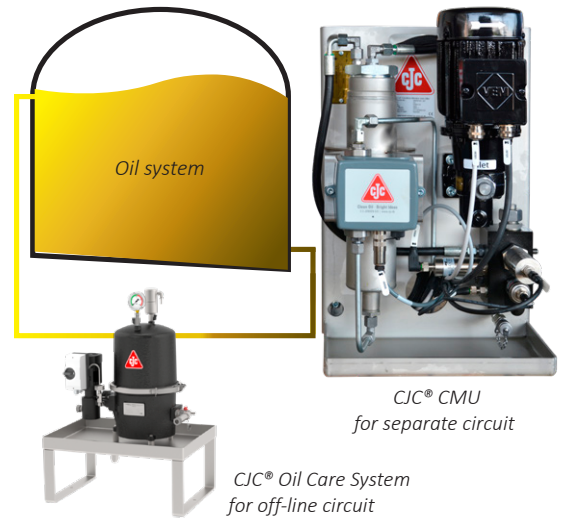
ADVANTAGES

By installing the CJC® CMU 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 and machine 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 wear risks for components at the earliest to minimise the failure impact and to find the root cause(s)
- enables plannable, calculable maintenance instead of unplanned, cost-intensive failures and breakdowns
- offers modular implementation of sensors for exact configuration regarding the specific operating conditions (see table below)
- has high-quality sensors to ensure exact and reliable condition values
- optimises with online monitoring as the best practice method your oil analysis and oil management program
- increases savings and accelerates return on investment

FEATURES

The integrated CJC® Sensor Technology includes the CJC® Oil Contamination Monitor OCM15 and numerous interfaces for modularly implementing of further sensors. It enables high data density and precise data interpretation of the oil and machine conditions.



The pump unit allows a separate oil circuit, so that volume flow and low-pressure conditions can be optimal and individually adjusted to sensor packages. Independent of viscosity, air entrainment and operation of the machine, exact oil condition values are permanently measured. The CJC® CMU is installed upstream of the CJC® Oil Care System. Quick and easy retrofit is possible.

DATA TRANSFER & ONLINE-MONITORING

For local data transfer, the CJC® CMU offers numerous options for data logging. Optional sensor data can be transferred into the CJC® Cloud.

For further information, see page 2.

OIL SENSORS

	CJC® Condition Monitoring Unit CMU					External Sensors *)		
	OCM Oil Contamination Monitor	OMT Oil Moisture Transmitter	OQM Oil Quality Monitor	PT100 Temperature	PT in Pressure	PT out Pressure	ODM Oil Debris Monitor	Input
Particles 4–250 µm (according to ISO 4406)	•							
Oil moisture – relative humidity [RH in %]		•						
Oxidation rate			•					
Oil temperature [°C]		•	•	•				
Pressure, filter inlet [bar]					•			
Pressure, filter outlet [bar]						•		
Wear particles 40–1000 µm (ferrous / non-ferrous)							•	
Oil care and analysis operation (ON / OFF)								•
Machine load (0–100%)								•

*) Not integrated in the CJC® CMU – the CJC® CMU communication box (see page 2) is serial prepared for the input signals.

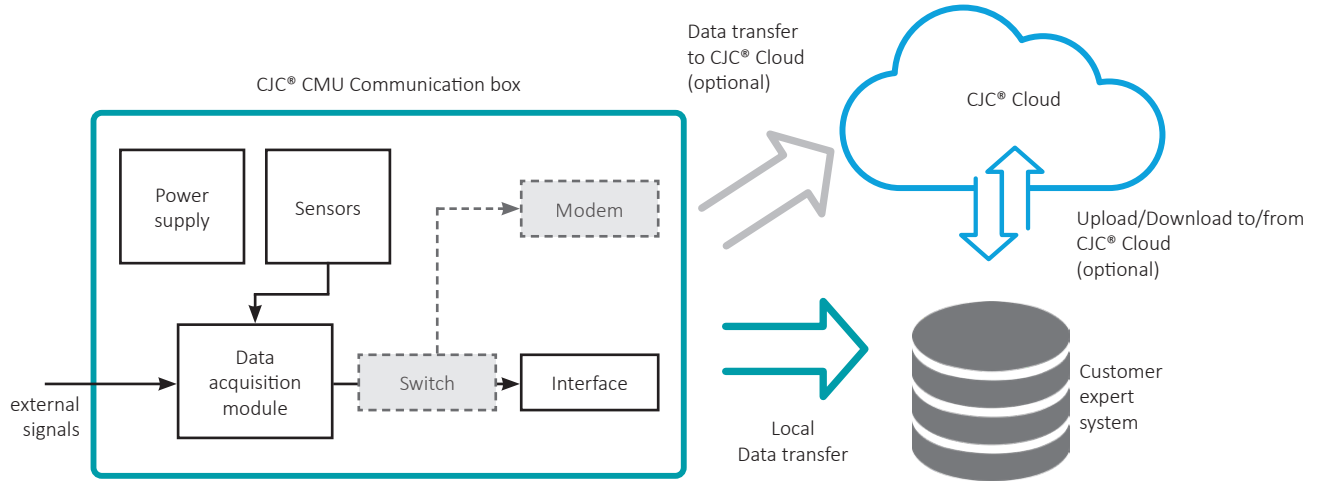


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DATA TRANSFER & ONLINE-MONITORING



Local data transfer via:

Ethernet:

- OPC UA
- CAN BUS
- MODBUS TCP
- Profinet
- MQTT

Standard:

- MODBUS RTU
- JSON String
- Profibus

Optional: Data transfer to CJC® Cloud via:

- Ethernet TCP/IP
- WiFi
- Cellular 4G/LTE

The CJC® T2render Clouds Basic and Pro are cloud-based applications for monitoring oil and machine condition values, including data analysis and interpretation in the pro-version.

For further information, see the following product sheets:

- CJC® T²render Solutions (*Ident No. PDMO4008*)
- CJC® Oil Contamination Monitor OCM15 (*Ident No. PDMO4005*)

INSTALLATION, OPERATION & MAINTENANCE

We deliver the CJC® Condition Monitoring Unit CMU prooed with the specified data interfaces.

On request, we deliver pipings, tubes and fittings for installation and/or additional equipment. We also support the installation if needed.

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