

Customer information

Condition Monitoring with HYDAC

Monitored, clean fluids for wind energy



Ensuring system availability starts with fluid monitoring

The condition of your lubricating oil plays a key role in the smooth operation of wind turbines as it reduces friction between the individual components, dissipates heat and transports wear particles. Continuous oil monitoring significantly reduces the risk of damage to the system or system failures in the drive train of your wind turbine.

Why smart condition monitoring is worth it

Repairs to the drive and gear systems are costly - this is mainly because of the complex logistics and limited accessibility. These operations are also labour-intensive and the trained personnel are not always available. Targeted monitoring and care measures help to rectify the situation and a smart maintenance plan will facilitate efficient operation without interruptions. Critical system states and anomalies will be detected automatically and this information can be viewed and stored in the cloud or in the software you have in place.

Reliable drive train monitoring – the cost-effective solution

Metallic wear particles must be detected quickly and reliably in your wind turbine, in order to avoid unnecessary system downtimes and maintenance work. The HYDAC Metallic Contamination Sensor monitors ferromagnetic particles (steel, iron) and non-ferromagnetic particles (aluminium, copper); this means mechanical particles are detected early on and the availability of the wind turbine is ensured for a long time. Corresponding certifications allow for retrofits and specific special requirements can also be implemented.

If you require more fluid-related data, we can offer you a smart plug & play system solution with up to three sensors. Our Condition Monitoring Package can be expanded on a modular basis.

Are you interested?

Contact us

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Further information on HYDAC condition monitoring solutions

The advantages of the Metallic Contamination sensor:



Sustainable:

Preventing damage to the system and ensuring operation



Safe:

Industry-proven sensors with DNV GL wind and marine approval



Connective:

Communication via ModBus RTU/TCP and CANopen

Modular Condition Monitoring Package

