

## Filter Systems

Progressive Fluid Condition Monitoring with HYDAC's comfortable plug-and-work solution Contamination Sensor Module CSM Comfort



Particle and water contamination enter the operating fluid as a result of friction, wear, leakage and excessive temperatures. The contamination results in downtime expense, damage and control inaccuracies in hydraulic systems. In addition, fluid mixtures and ageing processes lead to corrosion and the need for unscheduled repair work.

In order to prevent the expensive consequences, the monitoring of the condition of the oil in hydraulic aggregates is of great importance.

This is done via HYDAC's Contamination Sensor Module CSM Comfort. The comfortable plug-and-work solution is used for the permanent monitoring of fluid status by measuring solid particle contamination and water saturation.

Designed for 24/7 operation, the CSM-C can be used for all hydraulic and lubrication applications. Because it has its own integrated pump supply, together with a multi-voltage input, the CSM-C can also be used in any hydraulic conditions. The CSM-C should be placed directly at the measuring site. Its integrated analog output allows it to be connected easily to the customer controller (PLC).

The Sensor Monitoring Unit SMU 1200 is designed to be used as a remote access unit, as well as a display unit with reliable data storage. The unit integrates perfectly into the housing of the CSM-C; it can also be positioned conveniently in the owner's visual field using the 5-meter connecting cable.

The plug-and-work solution has the following properties:

- Continuous measurement in lubricating fluids, designed for 24/7 operation
- Housing for use near the measuring site
- Convenient display using SMU 1200

Further information: <http://www.hydac.com>  
Or simply send an e-mail to [filtersystems@hydac.com](mailto:filtersystems@hydac.com)