



Technical Update

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STAUFF Particle Monitor LPM II

The development of the STAUFF LPM II particle monitor is based on the experience gathered with the already familiar analysis devices of the LasPaC II series. In comparison with the previous model, the LPM I, the LPM II particle monitor detects the degree of contamination in the measured fluid in 8 channels and provides a more accurate and complete definition of the particle sizes in compliance with international standards.

The measurement data are either presented on the display as a contamination class according to ISO 4406:1999, NAS 1638, AS 4059E and ISO 11218 or as the number of particles per particle size. The internal storage can hold up to 4,000 measurement results. All measurement data can be transferred to a PC via a USB or Ethernet port and a real-time system analysis can also be carried out via this connection.

The LPM II particle monitor operates using newly developed diodes and as a result gives an accurate picture of the degree of contamination in the hydraulic system. Thanks to the high number of measuring channels, particle sizes between 4 µm and 70 µm can be detected separately. This enables analysis of the contamination in coarser ranges, too.

The LPM II has been specially developed for the continuous monitoring of the hydraulic system. As it is permanently installed into the system, the LPM II allows users to react quickly to increasing contamination and so to protect the system against costly stoppages and reduce machinery downtime.

Thanks to its robust and compact construction the LPM II is resistant to impacts, shocks, dust and moisture (protection class IP 67) and can be used with almost all common hydraulic fluids. It is available in two versions (with and without display).

For measuring points that are difficult to access it is possible to install a separate display in another place. It is also possible to connect it to existing machinery systems without any problems thanks to the MOD-Bus and CAN-Bus connections integrated into the device.

In contrast to many other particle monitors, thanks to special flow characteristics it is possible to carry out measurements with the LPM II almost irrespective of the pressure and flow rate.

The LPM II also offers the opportunity to set different alarm thresholds. This means that when defined threshold values are exceeded or not reached, a signal can be relayed to an external device (e.g. warning light or bypass filter). The LPM II can also be equipped with a water-in-oil sensor/temperature sensor.

The sensor detects the water content of the measured fluid (results in relative humidity, RH%) and also indicates the current fluid temperature (in °C).

Features:

- Measuring and monitoring acc. to ISO 4406:1999, NAS1638, AS 4059E and ISO 11218
- 8 measured channels: >4, 6, 14, 21, 25, 38, 50 and 70 µm
- Internal storage can hold up to 4,000 measurement results
- Available as an option: LPM II equipped with a water-in-oil sensor/temperature sensor

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