



PREVENTIVE MAINTENANCE MAXIMUM EFFICIENCY



The FMS-MK1000 combines the unmatched capabilities of the OilWear® sensor with an integrated HMI display, providing real-time information directly on the machine.

The advanced sensor technology detects particles and bubbles as small as 4 microns, classifying them by size range. This real-time data provides an accurate view of machine condition based on fluid contamination levels.

The FMS-MK1000 is a plug-and-play integration kit compatible with all lubrication and hydraulic systems, regardless of brand or design. The HMI display includes all the necessary functions to monitor the system, visualize real-time data, and store and export data via USB. In addition, it can be remotely connected for lubricant-based digital monitoring, ensuring comprehensive asset condition tracking.

MEASUREMENT VARIABLES

- ISO 4406 / NAS 1638 cleanliness code
- Total particle count (p/ml)
- Air bubble detection (b/ml)
- Particle shape classification (p/ml)
- Lubricant health (OD – Oil Degradation)

HMI



APPLICATION

- Ideal for systems without constant pressure.
- Enables autonomous flow control through recirculation.

Root cause analysis

Automatic particle shape recognition and classification.



SPECIFICATIONS

Power Supply	24 VDC	
Power Consumption	800mA	
Measurement Variables	ISO 4406 / NAS 1638 Total particles (p/ml) Air bubble detection (b/ml) Particle shape classification (p/ml) Flow rate (L/min)	
Alarms	Configurable level alarms displayed on the screen	
Digital Output	Ethernet RJ45 (Modbus: TCP/IP, FTP) HMI Display	
HMI Display	2-16 bar	0-2,5 bar
Operating Temperature	From -20° C to 70° C	
Viscosity Range	Up to 540 cSt	
Fluid Compatibility	*Mineral and synthetic oils	
Accuracy	+/- 1 ISO	
Hydraulic Connection	1/8" BSPPF	
Size / Weight	249x400x132 // 5 kg	249x400x132 // 5,6 kg
Materials	Stainless steel Aluminum Viton NBR	Stainless steel BK7 Aluminum PTFE Viton PEEK NBR
Protection	IP65	

*Contact us if you need to confirm compatibility with a different fluid.

