

Condition Monitoring Overview

Product	Measurement value	Application / customer benefit	Comment
 FFM unit	Solid particle contamination 4µm, 6µm, 14µm, 21µm... Pressure required Approved for 1-3000bar	Contamination in hydraulic oil • Detection of abrasive contamination • Detection of component wear	+ LowCost - no AS1000 - no data logger - no time stamp - no APP - pressure / no suction operation
 FCU1210..	Solid particle contamination 4µm, 6µm, 14µm, 21µm... Approved for -0.4 – 345bar	Contamination in hydraulic oil • Detection of abrasive contamination • Detection of component wear	- no AS1000 - no data logger - no time stamp - no APP + pressure – suction operation - no diesel
 FCU1310	Solid particle contamination 4µm, 6µm, 14µm, 21µm... • Relative saturation content % • Temperature °C Approved for -0.4 – 345bar	Contamination and water entry in hydraulic oil • Detection of abrasive contamination • Detection of component wear • Leak detection in cooling unit • Monitoring of water entry • Prevents oil ageing by water	+ with AS1000 + with data logger + with time stamp + with APP + pressure – suction operation - no diesel
 FCU1315	Solid particle contamination 4µm, 6µm, 14µm, 21µm... • Relative saturation content % • Temperature °C Approved for -0.4 – 345bar	Contamination and water entry in hydraulic oil / diesel • Detection of abrasive contamination • Detection of component wear • Leak detection in cooling unit • Monitoring of water entry • Prevents oil ageing by water	+ AS1000 + with data logger + with time stamp + with APP + pressure – suction operation + also diesel

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	Product	Data logger	Inlet	Outlet	Application
	HMG4000	16GB 500 x 8 million measured values	8 x analogue 8 x HSI analogue 8 x HSI smart 28 x CAN I/O link	USB	Mobile measurement and data collection
	SMU1200	3 - 4 years	2 x HSI smart	USB analogue Ethernet/TCP/IP ModbusTCP	- Measurement value display (remote display) - Save measurement values - Transfer measurement values to LAN network
	CMU1000	2 years	8 x HSI smart 8 x analogue	USB analogue Ethernet/TCP/IP	- Record measurement values "stationary" - Transfer measurement values to LAN network - do not exceed limit values - Trigger outlet / action switch
	CSL-C-11	64MB > 4 years	2 x HSI smart	Ethernet/TCP/IP ModbusTCP Wifi App	- Measurement value storage "stationary" - Display measurement value trend offline/online (APP) - Transfer measurement values to LAN network - Values to database server / cloud (in progress)
	CSL-C-11-A	64MB > 4 years	2 x HSI smart 4 x analogue	Ethernet/TCP/IP ModbusTCP Wifi App	- Record data and measurement values "stationary" - Display measurement value trend offline/online - Transfer measurement values to LAN network - Values to database server / cloud (in progress)
	MCMS2000	infinite	2 x HSI smart 3 x analogue 2 x Vibration 1 x frequency	LAN 1 x digital	- Record measurement values "stationary" - Display measurement value trend offline/online - Transfer measurement values to LAN network - Measurement values to database server / cloud - Report/ recommendations for actions
	CM-Expert	infinite	HSI Analogue LAN OPC	open	- Record data and measurement values "stationary" - Display measurement value trend offline/online - Transfer measurement values to LAN network - Measurement values to database server / cloud - Report/ recommendations for actions - Interface ERP/MES (SAP)