Continuous oil condition monitoring



Particle monitor LDP100 monitors the contamination of oils

- Analysis of particle concentration for trend monitoring
- Displays the cleanliness levels according to ISO 4406:99 or SAE AS4059E
- Robust aluminium die-cast housing for operating with pressures of up to 420 bar
- Intensely illuminated graphic display, intuitive push-button set-up
 - CAN-Bus, analogue and switching outputs



Recognising contamination

LDP100 monitors the degree of cleanliness or the level of contamination in fluids. Compatible media are mineral oils, ester oils and biodegradable oils.

The integrated data memory allows data recording over a longer period. The LCD display indicates the cleanliness level.

Measuring principle

The optical particle monitor LDP100 operates according to the light extinction principle. The changes to light intensity of a laser beam caused by particles in the medium flowing through the measurement cell are detected by a photo detector. The calibration is made in accordance with ISO 11943.

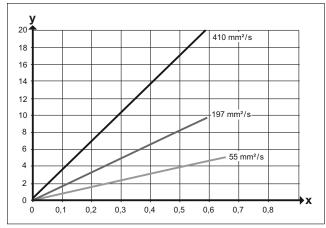
Connection

On the fluid side the LDP100 is equipped with two Minimess connections with which the unit can be mounted in the off-line circuit of the oil cycle. The electrical connection is installed using an 8-pole M12-plug.



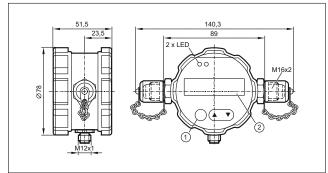
Condition monitoring systems Systems for oil quality monitoring

∆p-Q-characteristics for different viscosities



x: Volume flow in [l/min] y: Δ p in [bar]

Dimensions



1) Setbutton 2) LCD display

Accessories



Technical data

Particle monitor LDP100			
Operating voltage	[V DC]	933	
Current consumption	9 V 30 V	180 mA 65 mA	
Pressure range	[bar]	up to 420, dynamic	
Flow	[ml / min]	50400	
Display		Cleanliness level according to ISO 4406:99 and SAE AS4059E	
Size channels	[µm]	4, 6, 14, 21	
Concentration limit		ISO 425 at 10 % optical coincidence	
Temperature range	[°C] Oil Ambient Storage	-1080 -1060 -2060	
Fluid compatibility		Mineral oils (e.g. HLP), ester oils (e.g. HEES) and biodegradable oils (e.g. HETG), phosphate ester optionally	
Protection rating		IP 67 (with display IP 65)	
Interface		analogue output 420 mA configurable, digital alarm output, digital input to start and stop readings	
Data memory		3000 data records	
Setting		Via push buttons or digital I/O	
Electrical connection		M12 x 1, 8-pole	
Process connection		Minimess M16 x 2	
Wetted materials, sealing materials		High grade stainless steel, sapphire, NBR	

Connection technology

Туре	Description	Order no.
	M12 socket, 5 m, PUR cable, 8-pole	E12166
	M12 socket, 5 m, PUR cable, 8-pole	E12168

Clean Rooms | Pharma | Hospital | HVAC | BulkDrugs | Chemicals | Heavy Machinery | Hydraulics | Vacuum Industry Green House | Server Room | Confined Space | Cold Storage

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