Snijder Filtertechniek bv



Particle Monitor

OPCom Particle Monitor

Continuous Oil Condition Monitoring

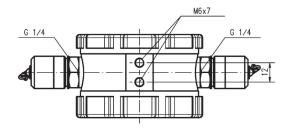






OPCom Particle Monitor

140,3 89



Description

Application area

The OPCom Particle Monitor is a compact particle measurement device for continuous monitoring of the contamination in hydraulic fluids and lubricants.

Performance features

Recognizing changes in your hydraulic fluid

Particle monitors precisely display any change of contamination in your system. In that way you can react quickly when an increase in particle concentration occurs and the appropriate countermeasures can be taken. Subsequent damages are minimized and costs are reduced.

High pressure range

The OPCom Particle Monitor is designed for operating with pressures of up to 420 bar. In that way it can be mounted directly to a pressure line.

Intuitive operating

The OPCom Particle Monitor is equipped with an intensely illuminated graphic display and a keypad by which you may set up all required adjustments. The menu navigation is made up intuitively and logically.

Wide communication possibilities

The OPCom Particle Monitor exports data to a serial interface or optionally to a CAN-Bus (CANopen + SAE J1939). Parallel, the configurable 4 - 20 mA interface can be connected. Over a digital alarm output you will be warned when limits are exceeded or fallen below. Readings can run time-controlled, manually or started and stopped over a digital input. The data can also be stored on the integrated memory unit.

Design characteristics

On the fluid side the OPCom Particle Monitor is equipped with two Minimess connections to connect the sensor generally in the off-line circuit to the system. The electrical connection is installed via an 8-pole M12 x 1 circular plug. The integrated data memory allows data recording over a longer period. Besides all its technical functions the OPCom Particle Monitor scores by its compact and optical design.

Dimension drawing

Measuring principle

The OPCom Particle Monitor is an optical particle monitor which works to a so-called light extinction principle. This means that the particles are classified within a measuring cell with the help of a laser regarding their size and quantity.

Software

A free PC-software for data recording and evaluation of the measured values can be downloaded from our website at www.argo-hytos.com within our download area.

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Technical data		
Sensor data	Size	Unit
Max. operating pressure:		
dynamic static	420 600	bar bar
Permissible flow rate	50 400	ml/min
Operating conditions: Temperature Rel. humidity	-20 +85 0 100	°C % r.H. (non-con- densing)
Display readable up to	60	°C
Compatible fluids	mineral oils (H, HL, HLP, HLPD, HVLP), synthetic esters (HETG, HEPG, HEES, HEPR), polyalkylenglycols (PAG), zinc and ash-free oils (ZAF), polyalphaolefins (PAO)	
Wetted materials	Stainless steel, sapphire, chrome, NBR, minimess coupling: Zinc/nickel	
Protection class ¹⁾	IP67	
Power supply	9 33	V
Power input	max. 0,3	А
Max. power consumption	2	W
Output Power output ²⁾ Accuracy power output ²⁾ Interfaces Alarm contact	4 20 ± 2 RS232/CAN Open Collector	mA % -
Digital input for start and stop Power supply	9 33	V
Data memory	3000	data records

Connecting dimensions		
Fluid connections	G¼ minimess	inch -
	M16x2	
Electrical connection	M12x1, 8-pole	-
Tightening torque M12-connection	0,1	Nm
Measuring range according to ISO 4406:99		
Cleanliness level (measuring range)	0 24	Ordinal number (OZ)
Cleanliness level (calibrated range)	10 22	Ordninal number (OZ)
Measuring accuracy (calibrated range)	±1	Ordinal number (OZ)
Weight	~720	g

¹⁾ With screwed-on connector

Order code

OPCom Particle Monitor	SPCO 300-1000
OPCom Particle Monitor for phosphate ester	SPCO 300-2000
OPCom Particle Monitor without display	SPCO 300-1200

Accessories

Complete data cable set, 5 m length	SCSO 100-5030
Data cable with open ends, 5 m length	SCSO 100-5020
Contact box for connection of a data cable	SCSO 100-5010
USB adapter - RS232 serial	PPCO 100-5420
Power supply	SCSO 100-5080
Ethernet - RS232 gateway	SCSO 100-5100
Display and storage device LubMon Visu	SCSO 900-1000
Minimess connection with volume flow limiting Pressure range 1: 2 50 bar Pressure range 2: 50 400 bar	SPCO 300-5105 SPCO 300-5140
Minimess connection with control loop	SPCO 300-5100

²⁾ Output lOut is freely configurable (see interfaces and communication commands) ³⁾ In relation to the analogue current signal (4 ... 20 mA)