

HYDAC INTERNATIONAL



AquaSensor AS 2000

Description

The AquaSensor AS 2000 is designed for online measurement and indication of the percentage of dissolved water in hydraulic fluids. It also measures the temperature. The AguaSensor measures the level of saturation in percentage (volume %) irrespective of the oil type, age and temperature. The level of saturation indicates how much water is dissolved in the oil as a percentage of the maximum possible (total saturation). In other words 0% would indicate oil which is free of water and 100% would indicate oil which is completely saturated with water.

Applications

Applications in test rigs, lubrication systems and hydraulic systems for:

- Dynamic trend measurement of the water content
- Leakage monitoring
- Maintenance planning

Advantages

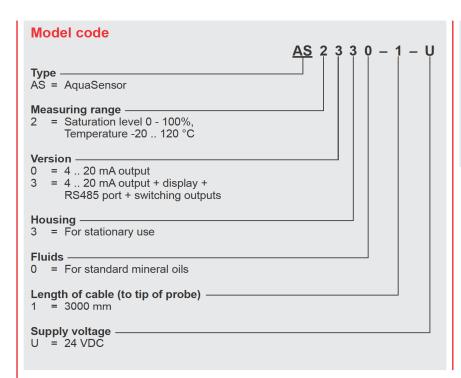
- With or without integral display
- Possible to transfer the measured values to a PC via RS 485 port
- Analogue and switching outputs

Technical specifications

Measurement range (calibrated)	Level of saturation: 0 - 100 %, Temperature: -20 120 °C
Accuracy	Level of saturation: +/- 2 %, Temperature: +/- 0.4 °C at 5 +50 °C
Operating pressure	-0.5 10 bar (-0.05 1MPa)
Flow velocity	max. 4.5 m/sec
Fluid temperature range	5 + 90 °C
Ambient temperature	-10 +70 °C
Supply voltage	24 VDC (10 30 VDC), max. 100 mA, residual ripple <10 %
Analogue outputs	
Level of saturation	4 20 mA, resolution: 0.02 mA
Temperature	4 20 mA, resolution: 0.02 mA
Max. ohmic resistance	500 Ω (Ohm)
Switching outputs + OG2 UG2 OG1 UG1	2 x saturation level (OG1/UG1) 2 x temperature (OG2/UG2), Transistors via optical coupler switching to +, max. 30VDC / 100mA / 3W
Protection class	IP65
Housing	Zinc die-casting GD-ZNAI 4

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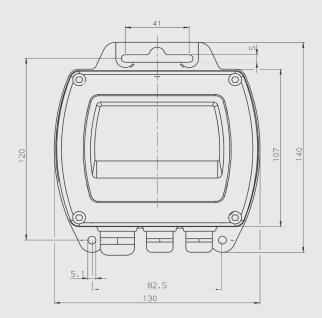
Items supplied

- AS 2000
- Stainless steel screw connection 1/2" with compression ring
- Operating manual

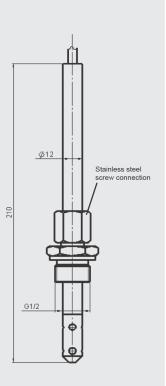
Accessories

 Calibration and adjustment kit Part No.: 3122629

Dimensions







Note

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The information in this brochure relates to the operating conditions and applications described.

For applications and operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

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