FO 510 - Industrial oil moisture sensor

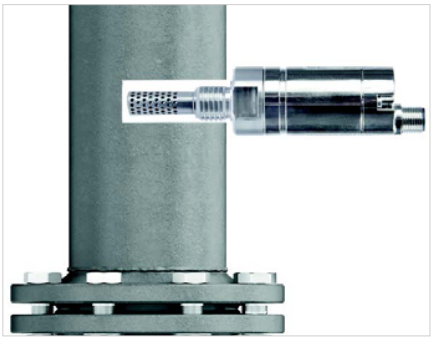
FO 510 for moisture measurement in technical oils

Special advantages:

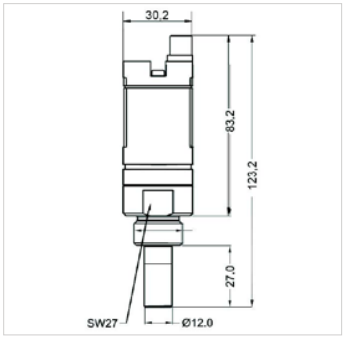
- Fast response time
- Highly accurate measurement of water activity (aw), as well as process temperature. Measurement is independent of the respective oil type or age
- Calculation of the absolute water content (PPM), possible for transformer oil
- Two configurable analogue outputs, as well as Modbus-RTU (RS 485) interface available

Typical application, measurement of residual moisture in:

- Transformer oil
- Engine oil
- Lubricating oil
- Hydraulic oil
- Diesel fuels



Recommendation:
Installation in a constantly flushedmeasuring point for best results



Dimensions FO 510

Example order code FO 510: 0699 0100_A1_B1_C1_D1

Process connection	
A1	G 1/2“
A2	1/2“ NPT

Scaling analog output 1	
B1	Water activity [ ] (standard)
B2	Water content x [ppm]
B3	Temperature T (°C)
B4	Temperature T (°F)

Scaling analog output 2	
C1	Temperature T (°C) (standard)
C2	Temperature T (°F)
C3	Water activity [ ]
C4	Water content x [ppm]

Oil type	
D1	Standard transformer oil
D2	Customer specific oil

Order code Cable for FO 510: 0553 0145_A1

Cable 8-polig	
A1	5 m
A2	10 m
A3	Variable lengths on request

ACCESSORIES	ORDER -NR.
CS Service Software FO 510 incl. interface cable to PC (USB) and power supply - for configuration/parametrisation of FO 510	0554 2010

TECHNICAL DATA FO 510	
Measuring range humidity:	0...1 aw
Accuracy (0…0.9 aw):	± 0.02 aw at +73 °F
Accuracy (0.9…1.0 aw):	typically ±0.03 aw at +73 °F
Measuring range temperature:	0...257 °F
Accuracy temperature:	±0,3 °C
Oil temperature:	-20...+257 °F
Ambient temperature:	-20...+158 °F
Pressure range:	up to 4351 psi
Interfaces:	2 x analogue output 04...20 mA (3-wire), Modbus RTU (RS 485)
Supply voltage:	24 VDC (10…36 VDC)
Protection class:	IP 66
EMV:	acc. to DIN EN 61326-1
Material thread:	1.4404
Material perforated cap	1.4301
Connection:	M12, 8-pin