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 (a_w), 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

Example order code FO 510: 0699 0100 A1 B1 C1 D1

Process connection		
A1	G 1/2"	
A2	1/2" NPT	
Scaling analogue output 1		

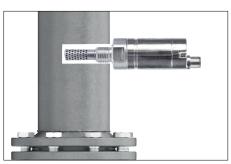
Scaling analogue output 1		
B1	Water activity [] (standard)	
B2	Water content x [ppm]	
В3	Temperature T (°C)	
B4	Temperature T (°F)	

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

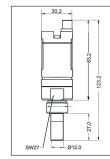
Oil type	
D1	Standard transformer oil
D2	Customer specific oil

Order code Cable for FO 510: 0553 0145 A1

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



Recommendation: Installation in a constantly flushed measuring point for best results



Dimensions FO 510

ACCESSORIES	ORDER NO.
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: Accuracy (00.9 a _w): Accuracy (0.91.0 a _w): Measuring range temperature: Accuracy temperature:	01 a _w ± 0.02 a _w at +23 °C typically ±0.03 a _w at +23 °C 0100 °C ±0,3 °C			
Oil temperature: Ambient temperature: Pressure range:	-20+100°C -20+70°C up to 300 bar			
Interfaces:	2 x analogue output 0420 mA (3-wire), Modbus RTU (RS 485)			
Supply voltage:	24 VDC (1036 VDC)			
Protection class:	IP 66			
EMV:	acc. to DIN EN 61326-1			
Material thread: Material perforated cap	1.4404 1.4301			
Connection:	M12, 8-pin			