## 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 ٠
- 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

Proces	ss connection
A1	G 1/2"
A2	1/2" NPT
Scalin	g analog output 1
B1	Water activity [] (standard)
B2	Water content x [ppm]
В3	Temperature T (°C)
B4	Temperature T (°F)
Scalin	g analog output 2
C1	Temperature T (°C) (standard)
C2	Temperature T (°F)
C3	Water activity []
C4	Water content x [ppm]
Oil typ	e
D1	Standard transformer oil
D2	Customer specific oil

## Order code Cable for FO 510: 0553 0145 A1

8-pin cable	
A1	16 ft.
A2	32 ft.
A3	Variable lengths on request





Recommendation:

**Dimensions FO 510** 

Installation in a constantly flushed measuring point for best results

# ORDER NO.

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

#### **TECHNICAL DATA FO 510**

ACCESSORIES

Measuring range humidity: Accuracy (0...0.9 a,): Accuracy (0.9...1.0 a ): Measuring range temperature: Accuracy temperature:

Oil temperature: Ambient temperature: Pressure range:

Interfaces:

Supply voltage: Protection class: EMV: Material thread: Material perforated cap Connection:

0...1 a<sub>w</sub> ± 0.02 a, at +73 °F typically ±0.03 a<sub>w</sub> at +73 °F 0...257 °F ±0.3 °C

-20...+257 °F -20...+158 °F up to 4351 psi

M12, 8-pin

2 x analog output 4...20 mA (3-wire), Modbus RTU (RS 485) 24 VDC (10...36 VDC) IP 66 acc. to DIN EN 61326-1 1.4404 1.4301

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