E+E *YOUR PARTNER IN SENSOR TECHNOLOGY*
ELEKTRONIK® Ges.m.b.H.

OILPORT 30 SET

Moisture in Oil Hand-Held

The moisture in oil hand-held OILPORT 30 measures water activity aw, temperature T and calculates the water content x (ppm) in different oils.
Up to ten sets of oil specific parameters can be stored and managed in the device. These parameters are used for accurate water content calculation in a certain oil.

The simple and intuitive operation via TFT touch screen and the built-in data logging function make the OILPORT 30 hand-held the ideal tool for fast and reliable oil analysis.

The set comes in a practical carrying case for safe storage of the device, probe and accessories.

The optional calibration kit is used for easy 1 and 2 point adjustment of the aw reading.

OILPORT 30 SET-1C01

Typical Applications

Monitoring of
- Transformer oil
- Lubrication oil
- Hydraulic oil
- Engine oil
- Diesel fuel

Features

Measurands: T, aw, x [ppm]
Up to 10 sets of oil specific paramters
Data logging function
Internal memory for 2 million measured values
Capacitive TFT touch screen
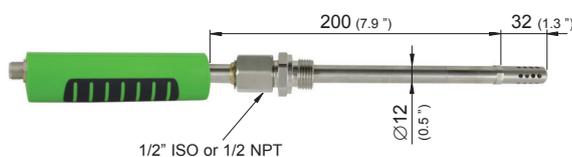**1/2-point customer adjustment for aw and T**

Technical Data

Basic Device

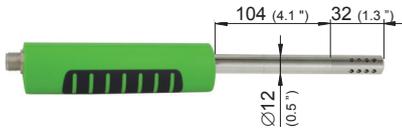|	
Power supply	4 x Alkaline LR6 AA batteries, 1.5 V (not in the scope of supply)
Optional power supply	5V DC via USB (cable included)
Temperature range	operation: handheld and handle of sensing probe: 0 °C...+50 °C (32 °F...+122 °F)
	storage: -20 °C...+60 °C (-4 °F...+140 °F)
	probe: see probe specifications
Internal memory	for approx. 2 million measured values
Housing / protection class	ABS / IP40
Dimensions (HxWxD)	170 mm x 62 mm x 34 mm (6.69 " x 2.44 " x 1.34 ")
Weight	approx. 205 g (0.45 lbs)
Display	TFT display, 54 mm x 41 mm (2.13 " x 1.61"), illuminated
CE compatibility	Hand-held: EN61000-6-2:2005 EN61000-6-3:2007
	Oil Probe: EN61326-1:2013 EN61326-2-3:2013

CE

Pressure-Tight Oil Probe

200 (7.9 ") 32 (1.3 ")

Ø12 (0.5 ")

1/2" ISO or 1/2 NPT

Working range: 0 a_w...1 a_w / 0 ppm...20000 ppm / -40 °C...+120 °C (-40 °F... +248 °F)
Accuracy: ±0.02 a_w (0 a_w...0.9 a_w)   ±0.03 a_w (0.9 a_w...1 a_w)
±0.2 °C @20 °C   ±0.5 °C @-40 °C and +120 °C
(±0.36 °F @68 °F)   (±0.9 °F @-40 °F and 248 °F)
Response time τ_{90}: ≤ 10 min (in still oil)
Pressure rating: 0.01 bar...20 bar (0.15 psi...290 psi)
Temperature dependence: ±0.0003 a_w / °C

Short Oil Probe

104 (4.1 ")   32 (1.3 ")

Ø12 (0.5 ")

Working range:	0 a_w...1 a_w /0 ppm...20000 ppm / -40 °C...+120 °C (-40 °F... +248 °F)
Accuracy:	±0.02 a_w (0 a_w...0.9 a_w) ±0.03 a_w (0.9 a_w...1 a_w)
	±0.2 °C @20 °C ±0.5 °C @-40 °C and +120 °C
	(±0.36 °F @68 °F) (±0.9 °F @-40 °F and +248 °F)

Response time τ_{90}:≤ 10 min (in still oil)
Pressure rating: 0.01 bar...20 bar (0.15 psi...290 psi)
Temperature dependence: ±0.0003 a_w / °C

Scope of Supply

- Basic device OMNIPORT 30 (batteries not in the scope of supply)
- USB-cable
- Oil probe
- Probe cable 2 m (6.6 ft)
- Calibration certificate for measuring probe
- Calibration certificate for basic device
- Protection cap for sensor head
- Carrying case

- Calibration device[*]
- 5 ampoules 10 % RH humidity calibration solution[*]
- 5 ampoules 80 % RH humidity calibration solution[*]
- Accredited calibration certificate for humidity standards[*]

[*] version C01 only

Ordering Information

MODEL	PROBE		CALIBRATION SET	
(OILPORT 30 SET-)	pressure-tight oil probe 1/2" ISO	**(1)**	without calibration set	**(--)**
	pressure-tight oil probe 1/2" NPT	**(2)**	with calibration set	**(C01)**
	short oil probe	**(3)**		

Order Example

OILPORT 30 SET-1C01

OILPORT 30 SET
pressure tight oil probe 1/2" ISO
with calibration set

OILPORT 30 SET-3

OILPORT 30 SET
short oil probe
without calibration set

Accessories

Humidity standards / Calibration device	**refer to data sheet "Humidity Calibration Set"**
Protective cover for OMNIPORT 30	**HA040907**
Probe cable 5 m (16.4 ft)	**HA010814**
Ball valve set 1/2" ISO	**HA050101**[*]
Ball valve set 1/2" NPT	**HA050104**[*]

[*] Suitable for pressure-tight oil probe only

Spare Parts

Hand-Held	**OMNIPORT 30**
Pressure tight oil probe 1/2" ISO	**Logprobe36-ISO**
Pressure tight oil probe 1/2" NPT	**Logprobe36-NPT**
Short oil probe	**Logprobe38**
Carrying case	**HA040906**
Probe cable 2 m (6.6ft)	**HA010813**