

Oilport 30 Set

Moisture in Oil Hand-Held

The moisture in oil hand-held Oilport 30 measures water activity a_w , 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 a_w reading.



Oilport 30 Set-1C01

Typical Applications

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

Features

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

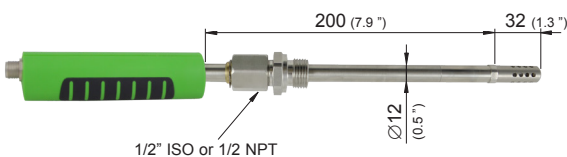
Technical Data

Basic Device

Power supply	4 x Alkaline LR6 AA batteries, 1.5 V (not in the scope of supply)		
Optional power supply	5 V DC via USB (cable included)		
Temperature range	operation: hand-held 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

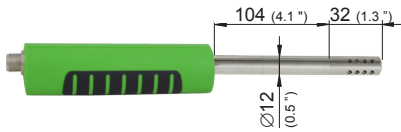


Pressure-Tight Oil Probe



Working range:	0 a_w ...1 a_w / 0 ppm...20000 ppm -40 °C...+120 °C (-40 °F...+248 °F)	
Accuracy:	$\pm 0.02 a_w$ (0 a_w ...0.9 a_w) ± 0.2 °C @20 °C (± 0.36 °F @68 °F)	$\pm 0.03 a_w$ (0.9 a_w ...1 a_w) ± 0.5 °C @-40 °C and +120 °C (± 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:	$\pm 0.0003 a_w /$ °C	

Short Oil Probe



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 τ₉₀: ≤ 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 Oilport 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
 Protective cover for Oilport 30
 Probe cable 5 m (16.4 ft)
 Ball valve set 1/2" ISO
 Ball valve set 1/2" NPT

refer to data sheet "Humidity Calibration Set"

HA040907
 HA010814
 HA050101^{*)}
 HA050104^{*)}

^{*)} Suitable for pressure-tight oil probe only

Spare Parts

Hand-Held
 Pressure tight oil probe 1/2" ISO
 Pressure tight oil probe 1/2" NPT
 Short oil probe
 Carrying case
 Probe cable 2 m (6.6ft)

OMNIPOINT 30
 Logprobe36-ISO
 Logprobe36-NPT
 Logprobe38
 HA040906
 HA010813