

## 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  $T$**

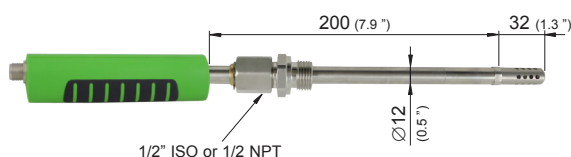
### Technical Data

#### 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

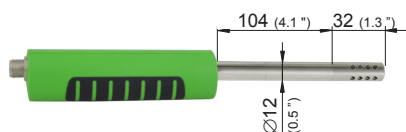


### Pressure-Tight Oil Probe



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 $a_w$ )	$\pm 0.03 a_w$ (0.9 $a_w$ ...1 $a_w$ )
	$\pm 0.2$ °C @20 °C	$\pm 0.5$ °C @-40 °C and +120 °C
	( $\pm 0.36$ °F @68 °F)	( $\pm 0.9$ °F @-40 °F and +248 °F)
Response time $\tau_{90}$ :	$\leq 10$ 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<sub>w</sub>...1 a<sub>w</sub> / 0 ppm...20000 ppm / -40 °C...+120 °C (-40 °F... +248 °F)  
Accuracy: ±0.02 a<sub>w</sub> (0 a<sub>w</sub>...0.9 a<sub>w</sub>) ±0.03 a<sub>w</sub> (0.9 a<sub>w</sub>...1 a<sub>w</sub>)  
±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<sub>90</sub>: ≤ 10 min (in still oil)  
Pressure rating: 0.01 bar...20 bar (0.15 psi...290 psi)  
Temperature dependence: ±0.0003 a<sub>w</sub> / °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**