

# 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.



### 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

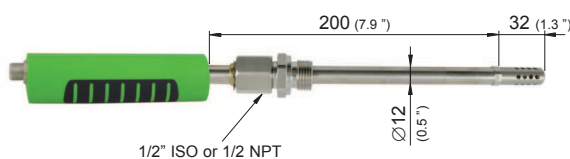
### Technical Data

#### Basic Device

Power supply	4 x Alkaline LR6 AA batteries, 1.5 V (not in the scope of supply)		
Optional power supply	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

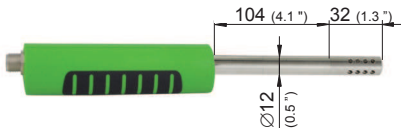


### Pressure-Tight Oil Probe



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 OMNIPOINT 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<sup>\*)</sup>
- 5 ampoules 10 % RH humidity calibration solution<sup>\*)</sup>
- 5 ampoules 80 % RH humidity calibration solution<sup>\*)</sup>
- Accredited calibration certificate for humidity standards<sup>\*)</sup>

<sup>\*)</sup> 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 OMNIPOINT 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<sup>\*)</sup>**  
**HA050104<sup>\*)</sup>**

<sup>\*)</sup> 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**