Oilport 30 Set

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.

**Typical Applications**

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

**Features**

- Measurands: T, aw, x [ppm]
- Up to 10 sets of oil specific parameters
- 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: 5 V DC via USB (cable included)
- Temperature range of operation: hand-held and handle of sensing probe: 0 °C...+50 °C (32 °F...+122 °F)
- Temperature range of storage: -20 °C...+60 °C (-4 °F...+140 °F)
- 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

**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: ±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_w: ≤ 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

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 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

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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 Oilport 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 (6.6 ft) HA010813