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+ Datasheet Oilport 30 Set

**Hand-held Meter for
Moisture in Oil Measurement**



Oilport 30 Set

Hand-held Meter for Moisture in Oil Measurement

A pressure-tight or short oil probe can be connected to the Oilport 30 handheld moisture-in-oil meter.

The Oilport 30 set measures water activity (aw), temperature (T) and calculates the water content x (ppm) in various oils, such as transformer oil, lubricating oil, hydraulic oil, engine oil, diesel fuel.

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.

Display and Analysis

The simple and intuitive operation via the TFT touch screen and the integrated data logger function make the Oilport 30 handheld meter the ideal tool for fast and reliable oil diagnosis. The SmartGraph3 PC software is available for archiving and analysing the recorded data.

Accessory

The set is supplied in a practical carrying case for safe storage of the device and accessories.

A 1- and 2-point adjustment of the aw and T value is possible with the Oilport 30 set. A calibration set is optionally available for easy on-site adjustment by the customer.



Oilport 30 Set-T10PA23AC41

Features

Oilport 30

- 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

TFT display

- 54 mm x 41 mm (2.13" x 1.61")
- With backlight

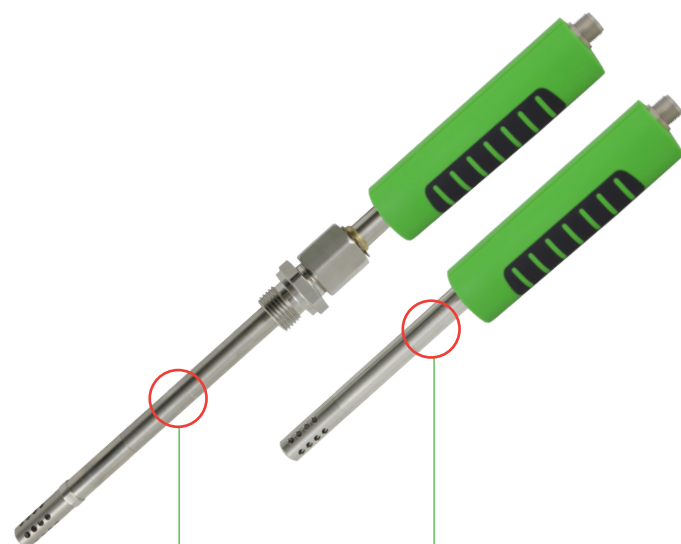
Enclosure

- IP40 protection rating
- ABS (Acrylonitrile butadiene styrene)

Ball valve set (optional)



Oilport 30 Set



Short oil probe

Pressure-tight oil probe

Calibration kit (optional)

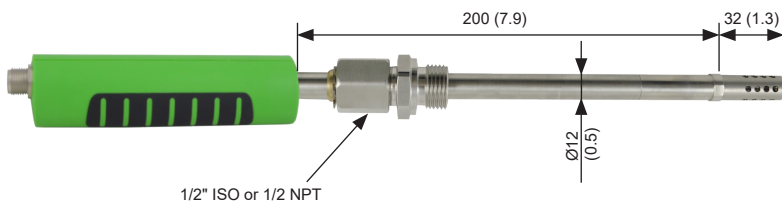
Dimensions

Values in mm (inch)

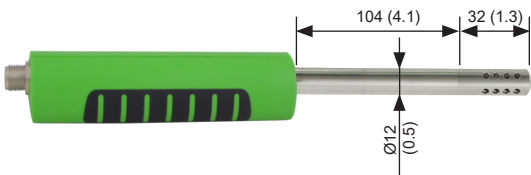
Oilport 30



Pressure-Tight Oil Probe




Short Oil Probe




Technical Data

Oilport 30

Power supply	4x Alkaline LR6 AA batteries, 1.5 V (not in the scope of supply)
Optional power supply	5 V DC via USB (cable included), recommended for data recording
Internal memory	For approx. 2 million measured values
Dimensions	170 x 62 x 34 mm (6.69 x 2.44 x 1.34")
Display	TFT display, 54 x 41 (2.13 x 1.61"), with backlight
Weight	Approx. 205 g (0.45 lbs)
Temperature range	Operation 0...50 °C (32 ...122 °F) Storage -20...+60 °C (-4...140 °F)
Enclosure	Material ABS (Acrylonitrile butadiene styrene) Protection rating IP40
Electromagnetic compatibility	EN61000-6-2:2005 EN61000-6-3:2007
Conformity	
Configuration software	SmartGraph3 Free download from www.epluse.com/oilport30

Pressure-tight and Short oil probe

Measuring range probe	0...1 a _w 0...20000 ppm -40...+120 °C (-40...+248 °F)
Accuracy	0...0,9 a_w ±0.02 a _w 0,9...1 a_w ±0.03 a _w 20 °C (68 °F) ±0.2 °C (±0.36 °F) -40 and +120 °C (-40 and +248 °F) ±0.5 °C (±0.9 °F)
Response time τ ₉₀ , in still oil	≤10 min (in still oil)
Pressure working rating (for pressure-tight oil probe only)	0.01...20 bar (0.15...290 psi)
Temperature range (Probe handle)	Operation 0...50 °C (32 ...122 °F) Storage -20...+60 °C (-4...140 °F)
Temperature dependence	±0.0003 a _w / °C
Enclosure	Material ABS (Acrylonitrile butadiene styrene) Protection rating IP40
Electromagnetic compatibility	EN61326-1:2013 EN61326-2-3:2013
Conformity	

Scope of Supply

- Hand-held meter Oilport 30 (batteries not in the scope of supply)
- USB-cable
- Oil probe with protection cap
- Probe cable 2 m (6.6 ft)
- Calibration certificate for measuring probe
- Calibration certificate for basic device
- Carrying case

For ordering guide AC41 only

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

Ordering Guide

Feature	Description	Code	
		OILPORT30SET-	
Type	Pressure-tight oil probe Short oil probe	T10	T7
Process connection	Without		No code
	G1/2" ISO - slide fitting 1/2" NPT - slide fitting	PA23 PA25	
Accessories	Without	No code	
	With calibration set	AC41	

Order Examples

OILPORT30SET-T10PA23

Feature	Code	Description
Type	T10	Pressure-tight oil probe
Process connection	PA23	G1/2" ISO - slide fitting
Accessories	No code	Without

OILPORT30SET-T7AC41

Feature	Code	Description
Type	T7	Short oil probe
Process connection	No code	Without
Accessories	AC41	With calibration set

Accessories

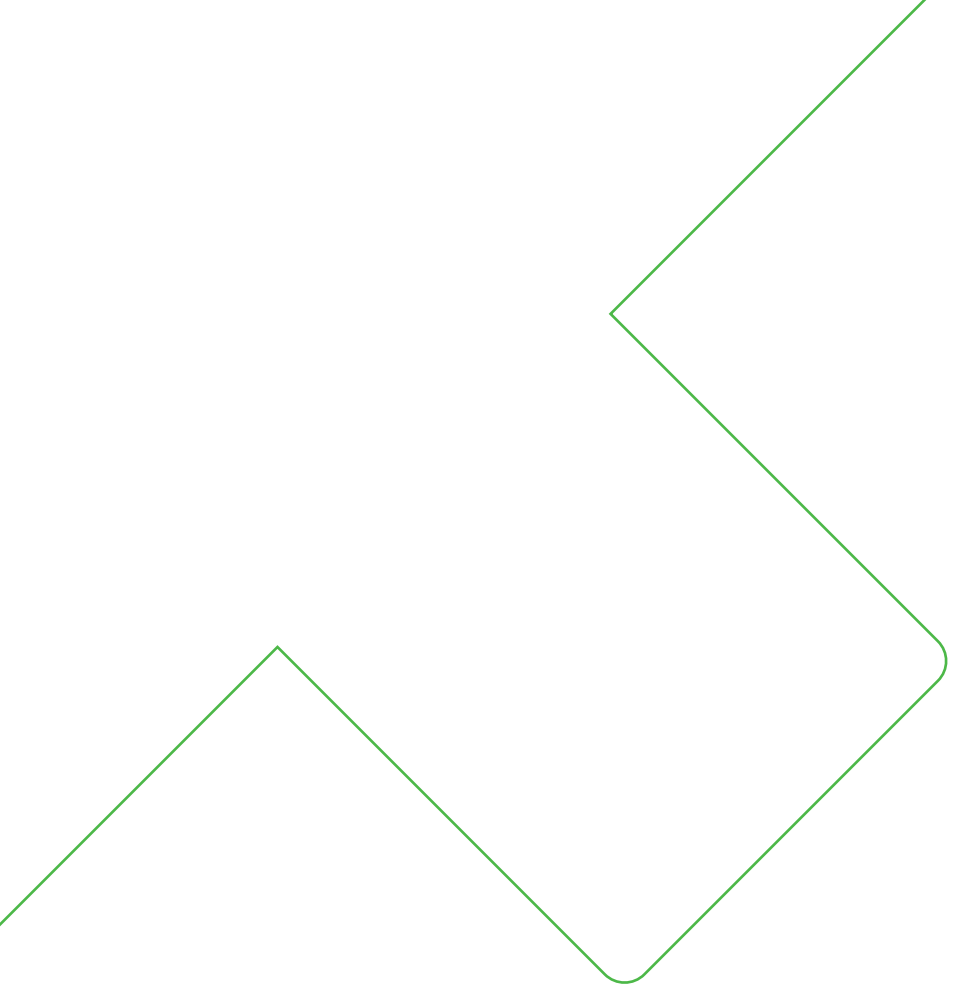
For further information see datasheet [Accessories](#).

Description	Code
Humidity standards / Calibration device	Refer to data sheet " Humidity Calibration Kit "
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

Description	Code
Hand-held meter	OMNIPOINT 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



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