

OILPORT 20

Moisture in Oil Hand-Held

To measure moisture in oil with a hand-held, user-friendly instrument requires extraordinary measurement technology. The hand-held meter OILPORT 20 meets these multiple demands and is available with a pressure-tight or short measuring probe

The robust housing of the OILPORT 20 allows usage in harsh industrial environments. The readability of the large illuminated display is excellent. The easy to understand menu and the practical thumbwheel navigation offer outstanding comfort.

The carrying cases can accommodate the measuring equipment with optional calibration devices. The accuracies of the measured values are traceable to international standards, administrated by NIST, PTB, BEV...



OILPORT 20 SET

Typical Applications

Measurement of moisture in mineral and synthetic oil

Features

measurands: T, aw, x
large, illuminated display
HOLD / MIN / MAX / AVG readout
real time clock
SI/US units selectable
recalibration by user

Technical Data - Display unit

General

Resolution	moisture measurement: aw: 0.001 [] or 0.01...1ppm (depending on measuring range)		
	temperature measurement: 0.1°C; 0.1°F		
Supply voltage	4x 1.5V AA alkali-manganese battery		
Battery lifetime	200h		
Working temperature range	handheld and grip of sensing probe: 0...50°C (32...122°F)		
CE compatibility according	EN50081-2	EN50082-2	EN55011
	EN61000-4-2	EN61000-4-3	
Housing / protection class	ABS / IP40		
Dimensions (HxWxD)	145 x 85 x 37 mm (5.7 x 3.3 x 1.5")		
Weight	ca. 400g (1lbs)		
Display	LC display, 90 x 50 mm (3.5 x 2"), illuminated		



Scope of supply

- Display unit type OMNIPOINT 20 (including a set of 4 AA batteries)
- Oil probe
- Probe cable type HA010813, 2m (6,6ft)
- Calibration certificate for the sensing probe
- Calibration certificate for the display unit
- S01 protection sleeve for the sensing head
- Carry case
- Calibration kit horizontal*)
- 5 ampoules humidity standard 10% RH*)
- 5 ampoules humidity standard 80% RH*)
- Accredited calibration certificate for the humidity standards*)

*) Only with version C01

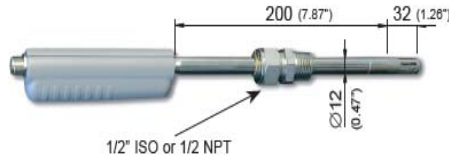
OILPORT 20

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How clean is your oil ?

Oil Probes:

Pressure-tight Oil probe $\varnothing 12\text{mm}$ (0.47")



Application: measurement of moisture in mineral and synthetic oil
 Working range: $0 \dots 1 a_w / 0 \dots 20000\text{ppm}$ / $-40 \dots 120^\circ\text{C}$ ($-40 \dots 248^\circ\text{F}$)
 Accuracy: $\pm 0.02 a_w$ ($0 \dots 0.9 a_w$), $\pm 0.03 a_w$ ($0.9 \dots 1 a_w$)
 $\pm 0.2^\circ\text{C}$ / $\pm 0.36^\circ\text{F}$ (20°C / 68°F),
 $\pm 0.5^\circ\text{C}$ / $\pm 0.9^\circ\text{F}$ (-40 resp. 120°C / -40 resp. 248°F)
 Response time τ_{95} : ≤ 10 min (in still oil)
 Pressure range: $0.01 \dots 20\text{bar}$ ($0.15 \dots 300\text{psi}$)
 Measurand: channel 1: T [$^\circ\text{C}/^\circ\text{F}$]
 channel 2: a_w [] or x [ppm] oil specific parameters
 are adjustable at the basic device
 Temperature dependence: a_w : $\pm 0.0003 a_w / ^\circ\text{C}$ ($a_w / ^\circ\text{F}$)

Short Oil probe $\varnothing 12\text{mm}$ (0.47")



Application: measurement of moisture in mineral and synthetic oil
 Working range: $0 \dots 1 a_w / 0 \dots 20000\text{ppm}$ / $-40 \dots 120^\circ\text{C}$ ($-40 \dots 248^\circ\text{F}$)
 Accuracy: $\pm 0.02 a_w$ ($0 \dots 0.9 a_w$), $\pm 0.03 a_w$ ($0.9 \dots 1 a_w$)
 $\pm 0.2^\circ\text{C}$ / $\pm 0.36^\circ\text{F}$ (20°C / 68°F),
 $\pm 0.5^\circ\text{C}$ / $\pm 0.9^\circ\text{F}$ (-40 resp. 120°C / -40 resp. 248°F)
 Response time τ_{95} : ≤ 10 min (in still oil)
 Measurand: channel 1: T [$^\circ\text{C}/^\circ\text{F}$]
 channel 2: a_w [] or x [ppm] oil specific parameters
 are adjustable at the basic device
 Temperature dependence: a_w : $\pm 0.0003 a_w / ^\circ\text{C}$ ($a_w / ^\circ\text{F}$)

Ordering Guide

MODEL	PROBES	CALIBRATION SET	ACCESSORIES
basic device (OILPORT 20)	pressure-tight oil probe (1)	without calibration set (-)	calibration ampulse (HA0104xx)
	short oil probe (2)	with calibration set (C01)	probe cable 5m (HA010814) pressure-tight oil probe - 1/2" ISO (HA040204) pressure-tight oil probe - 1/2" NPT (HA040206) short oil probe (HA040210)