

OMNIPORT 30

Multifunctional Hand-Held

The robust multifunctional hand-held meets the highest requirements and comes with a wide range of accurate probes that fit various applications. Use touch-screen navigation to show, up to three measurement values simultaneously on the capacitive TFT display.

A total of 23 measurands (vary according to probe) is available, including:

- | | |
|-------------------------|-----------|
| • relative humidity | RH |
| • temperature | T |
| • dew point temperature | Td |
| • absolute humidity | dv |
| • mixing ratio | r |
| • air velocity | v |
| • volumetric flow | \dot{v} |
| • air pressure | p |
| • CO ₂ | ppm |



Store measurement values in the internal memory of the device and use the free SmartGraph3 software to manage data on your PC. The optional carrying case accommodates the hand-held and probes, as well as accessories.

Data-Logging & Data-Management

The Omniport 30 offers both continuous and single-point data-logging. The measurement values of up to three channels are stored simultaneously, together with a time and date stamp, in the internal memory of the device.

Stored measurement data, as well as the minimum, maximum, average and standard deviation values can be shown directly on the display. Scroll through a recorded measurement and switch between graphs by using the control cross.



Data management is easy and intuitive by using the free SmartGraph3 software to create graphs that contain measurement channels of interest for better data analysis. Data can be exported in .csv format and then imported into EXCEL for further processing.

Features

Data logging
Internal memory for 2 million measured values
23 physical quantities
Capacitive TFT touch screen
Displays measurands simultaneously

Real-time HOLD / MIN / MAX / AVG readout
Integrated air pressure sensor
User friendly operation
Free data management software

Technical Data

General

Power supply	4 x Alkaline LR6 AA batteries, 1.5 V
Optional power supply	5V DC via USB (cable included)
Temperature range	operating: handheld and handle of sensing probe: 0...50°C (32...122°F) storage: -20...60°C (-4...140°F)
Internal memory	for approx. 2 million measured values
Housing / protection class	ABS / IP40
Dimensions (HxWxD)	170 x 62 x 34 mm (6.69 x 2.44 x 1.34")
Weight	ca. 205g (0.45 lbs)
Display	TFT display, 54 x 41 mm (2.13 x 1.61"), illuminated
CE compatibility	EN61326-1:2006 EN61326-2-1:2006



Integrated air pressure sensor

Measuring range	800 to 1100 mbar (complete accuracy)
Accuracy	max. ± 0.5 mbar (at 25 °C, 1013.25 mbar)
Long term stability	typ. -1 mbar/year

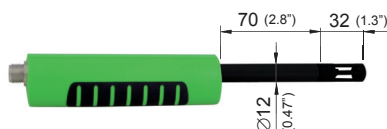
HUMIDITY / TEMPERATURE PROBES

LOGPROBE 20 - compact, pluggable HVAC probe



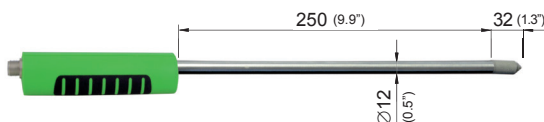
Working range:	0...100% RH / -40...80°C (-40...176°F)
Accuracy:	$\pm 2\%$ RH (0...90% RH), $\pm 3\%$ RH (90...100% RH) @20°C / 68°F $\pm 0.2^\circ\text{C}$ / $\pm 0.36^\circ\text{F}$ @20°C / 68°F max. $\pm 0.6^\circ\text{C}$ / $\pm 1.08^\circ\text{F}$ (-40...80°C / -40...176°F)
Response time τ_{90} :	≤ 30 sec.
Order code:	LOGPROBE20-HTPC

LOGPROBE 16 - HVAC probe



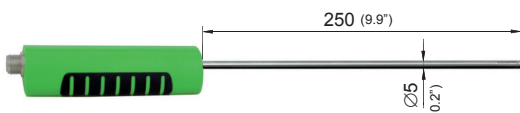
Working range:	0...100% RH / -20...70°C (-4...158°F)
Accuracy:	$\pm 2\%$ RH (0...90% RH), $\pm 3\%$ RH (90...100% RH) @20°C / 68°F $\pm 0.2^\circ\text{C}$ / $\pm 0.36^\circ\text{F}$ @20°C / 68°F max. $\pm 0.5^\circ\text{C}$ / $\pm 0.9^\circ\text{F}$ (-20...70°C / -4...158°F)
Response time τ_{90} :	≤ 7 sec.
Order code:	LOGPROBE16

LOGPROBE 31 - high temperature probe



Working range:	0...100% RH / -40...180°C (-40...356°F) (grip of sensing probe up to 50°C/122°F)
Accuracy:	$\pm 2\%$ RH (0...90% RH), $\pm 3\%$ RH (90...100% RH) @20°C / 68°F $\pm 0.2^\circ\text{C}$ / $\pm 0.36^\circ\text{F}$ @20°C / 68°F max. $\pm 0.6^\circ\text{C}$ / $\pm 1.08^\circ\text{F}$ (-40...180°C / -40...356°F)
Response time τ_{90} :	≤ 30 sec.
Temperature dependency: RH:	$\pm 0.03\%$ RH/°C (% RH/1.8°F)
Order code:	LOGPROBE31

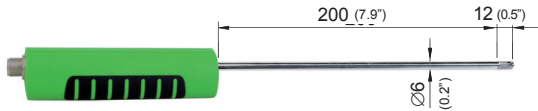
LOGPROBE 30 - confined space probe



Working range:	0...100% RH / -40...100°C (-40...212°F)
Accuracy:	$\pm 2\%$ RH (0...90% RH), $\pm 3\%$ RH (90...100% RH) @20°C / 68°F $\pm 0.2^\circ\text{C}$ / $\pm 0.36^\circ\text{F}$ @20°C / 68°F max. $\pm 0.6^\circ\text{C}$ / $\pm 1.08^\circ\text{F}$ (-40...100°C / -40...212°F)
Response time τ_{90} :	≤ 15 sec.
Temperature dependency: RH:	$\pm 0.03\%$ RH/°C (% RH/1.8°F)
Order code:	LOGPROBE30

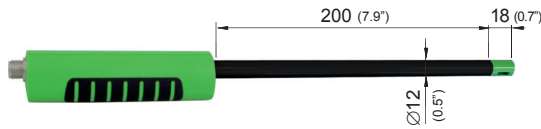
AIR VELOCITY PROBES

LOGPROBE 61/60 - stainless steel probe



Working range:	0.08...2m/s (15...400ft/min) -20...70°C (-4...158°F)	0.2...20m/s (40...4000ft/min) -20...70°C (-4...158°F)
Accuracy:	± (0.04m/s / 8ft/min + 1% of m. v.) ± 0.7°C / ±1.26°F (0...50°C / 32...122°F)	± (0.2m/s / 39ft/min + 2% of m. v.) ± 0.7°C / ±1.26°F (0...50°C / 32...122°F)
Response time τ_{90} :	≤ 1.5 sec.	≤ 1.5 sec.
Order code:	LOGPROBE61	LOGPROBE60

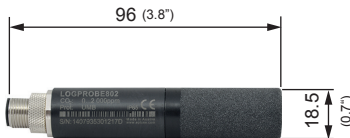
LOGPROBE 65 - polycarbonate probe



Working range:	0.2...20m/s (40...4000ft/min) / 0...50°C (32...122°F)
Accuracy:	± (0.2m/s / 39ft/min + 3% of m. v.) ± 1°C / ±1.8°F (0...50°C / 32...122°F)
Response time τ_{90} :	≤ 1.5 sec.
Order code:	LOGPROBE65

CO₂ PROBE

LOGPROBE 802/805/810 - CO₂ probe



Working range:	0...2000 / 5000 / 10000ppm
Technology:	dual wave NDIR with autocalibration
Accuracy at 25°C and 1013mbar (77°F and 14.69psi)	0...2000ppm: < ± (50ppm +2% of measured value) 0...5000ppm: < ± (50ppm +3% of measured value) 0...10000ppm: < ± (100ppm +5% of measured value)
Warm-up time:	3 min.
Temperature dependency:	typ. 1ppm CO ₂ /°C (-20...45°C) (-4...113°F)
Order code:	0...2000ppm LOGPROBE802 0...5000ppm LOGPROBE805 0...10000ppm LOGPROBE810

Carrying Case

The optional carrying case protects the handheld, probes and accessories during transport and storage. It helps to avoid mechanical damage, as well as the contamination of the sensors, which is essential for the optimal long term performance of the instrument.



Protective Cover

The optional cover protects the handheld device during usage in dirty or oily environments. The integrated magnetic plate allows an easy temporary fixing of the handheld onto a metallic surface on site, while the hang-on straps helps keep your hands free while taking measurements.



Ordering Guide

		Pluggable Probes ¹⁾	Remote Probes ²⁾
POSITION 1	BASIC DEVICE	OMNIPORT30	OMNIPORT30
POSITION 2	CABLE 2m (6.6ft)		HA010813
POSITION 3	PROBES		
	Humidity / Temperature	LOGPROBE20-HTPC	LOGPROBE16 LOGPROBE31 LOGPROBE30
	LOGPROBE 20 - compact, pluggable HVAC probe		
	LOGPROBE 16 - HVAC probe		
	LOGPROBE 31 - high temperature probe		
	LOGPROBE 30 - confined space probe		
	Air Velocity		LOGPROBE61 LOGPROBE60 LOGPROBE65
	LOGPROBE 61 - stainless steel probe / 0.08...2m/s (15...400ft/min)		
	LOGPROBE 60 - stainless steel probe / 0.2...20m/s (40...4000ft/min)		
	LOGPROBE 65 - polycarbonate probe / 0.2...20m/s (40...4000ft/min)		
	CO₂	LOGPROBE802 LOGPROBE805 LOGPROBE810	
	LOGPROBE 802 - 0...2000ppm		
	LOGPROBE 805 - 0...5000ppm		
	LOGPROBE 810 - 0...10000ppm		
POSITION 4	CARRYING CASE For basic device and up to 4 probes	HA040906	HA040906

1) Directly connected to device, cable is optional

2) Cable is necessary

Order Example

Pluggable Probes:

Position 1 - Basic Device **OMNIPORT30**
 Position 2 - Probe **LOGPROBE805**
 Position 3 - Carrying Case **HA040906**

Remote Probes:

Position 1 - Basic Device **OMNIPORT30**
 Position 2 - Cable **HA010813**
 Position 3 - Probes **LOGPROBE16**
LOGPROBE61
 Position 4 - Carrying Case **HA040906**

Accessories

Carrying case for basic device,
 2 pluggable and 2 remote probes **HA040906**

Protective cover **HA040907**

Membrane filter PC (for Ø12mm RH/T probes) **HA010118**

Metal grid filter PC (for Ø12mm RH/T probes) **HA010119**

Stainless steel sintered filter
 (for Ø12mm RH/T probe) **HA010103**

Cable for remote probes 2m (6.6ft) **HA010813**

Humidity standards / Calibration device [refer to data sheet Humidity Calibration Set](#)

SmartGraph 3 - data management software [free download at www.epluse.com/smartgraph3](http://www.epluse.com/smartgraph3)