

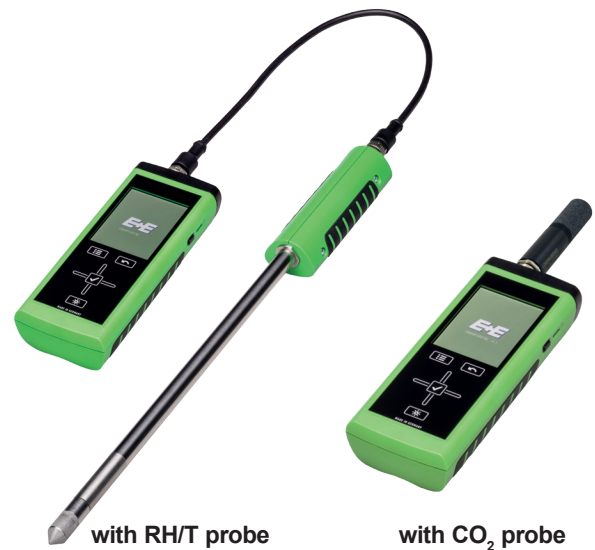
Omniport 30

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 (not in the scope of supply)	
Optional power supply	5 V DC via USB (cable included)	
Temperature range	operating: hand-held 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	
Automatic measurement	Recording duration: 5 min, 10 min, 30 min, 1 h, 3 h	
Housing / protection class	ABS / IP40	
Dimensions (HxWxD)	170 x 62 x 34 mm (6.69 x 2.44 x 1.34")	
Weight	ca. 205 g (0.45 lbs)	
Display	TFT display, 54 x 41 mm (2.13 x 1.61"), illuminated	
CE compatibility	Hand-held: EN61000-6-2:2005	EN61000-6-3:2007
	Logprobe: EN61326-1:2013	EN61326-2-3:2013



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

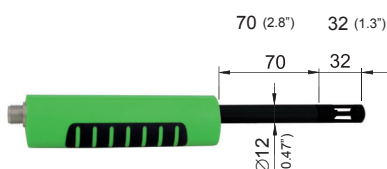
HUMIDITY / TEMPERATURE PROBES

Logprobe 20 - compact, pluggable HVAC probe



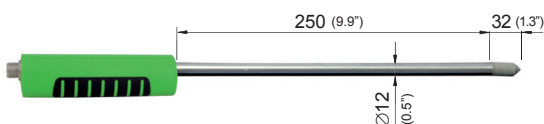
Working range:	0...100 % RH / -40...80 °C (-40...176 °F)
Accuracy:	±2 % RH (0...90 % RH), ±3 % RH (90...100 % RH) @20 °C / 68 °F ±0.2 °C / ±0.36 °F @20 °C / 68 °F max. ±0.6 °C / ±1.08 °F (-40...80 °C / -40...176 °F)
Order code:	LOGPROBE20-HTPC
Response time τ_{90} :	≤ 30 sec.
Filter:	Membrane filter
Order code:	LOGPROBE20-HTPA
Response time τ_{90} :	≤ 10 sec.
Filter:	Plastic grid filter

Logprobe 16 - HVAC probe



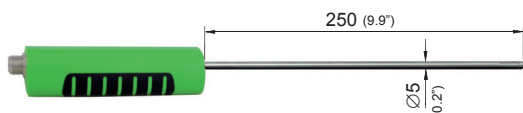
Working range:	0...100 % RH / -20...70 °C (-4...158 °F)
Accuracy:	±2 % RH (0...90 % RH), ±3 % RH (90...100% RH) @20 °C / 68 °F ±0.2 °C / ±0.36 °F @20 °C / 68 °F max. ±0.5 °C / ±0.9 °F (-20...70 °C / -4...158 °F)
Response time τ_{90} :	≤ 7 sec.
Order code:	LOGPROBE16

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:	±2 % RH (0...90 % RH), ±3 % RH (90...100 % RH) @20 °C / 68 °F ±0.2 °C / ±0.36 °F @20 °C / 68 °F max. ±0.6 °C / ±1.08 °F (-40...180 °C / -40...356 °F)
Response time τ_{90} :	≤ 30 sec.
Temperature dependency:	RH: ±0.03 % RH/°C (% RH/1.8 °F)
Order code:	LOGPROBE31

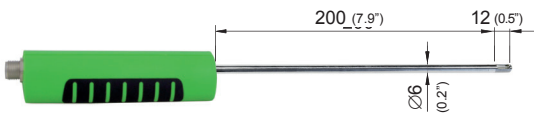
Logprobe 30 - confined space probe



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

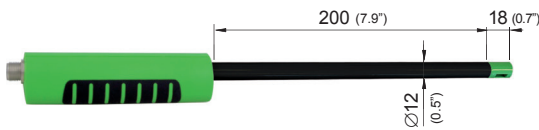
AIR VELOCITY PROBES

Logprobe 61/60 - stainless steel probe



Working range:	0.08...2 m/s (15...400 ft/min) -20...70 °C (-4...158 °F)	0.2...20 m/s (40...4000 ft/min) -20...70 °C (-4...158 °F)
Accuracy:	± (0.04 m/s / 8 ft/min + 1 % of m. v.) ± 0.7 °C / ±1.26 °F (0...50 °C / 32...122 °F)	± (0.2 m/s / 39 ft/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

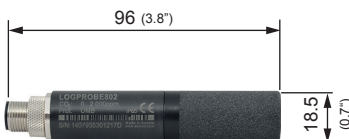
Logprobe 65 - polycarbonate probe



Working range:	0.2...20 m/s (40...4000 ft/min) / 0...50 °C (32...122 °F)
Accuracy:	± (0.2 m/s / 39 ft/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 / 10000 ppm
Technology:	dual wave NDIR with auto-calibration
Accuracy at 25 °C and 1013mbar (77 °F and 14.69 psi)	0...2000 ppm: < ± (50 ppm + 2 % of measured value) 0...5000 ppm: < ± (50 ppm + 3 % of measured value) 0...10000 ppm: < ± (100 ppm + 5 % of measured value)
Warm-up time:	3 min.
Temperature dependency:	typ. 1 ppm CO ₂ /°C (-20...45 °C) (-4...113 °F)
Order code:	0...2000 ppm LOGPROBE802 0...5000 ppm LOGPROBE805 0...10000 ppm LOGPROBE810

Carrying Case

The optional carrying case protects the hand-held, 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.



HA040906

Protective Cover

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



HA040907

Ordering Guide

		Pluggable Probes ¹⁾	Remote Probes ²⁾
POSITION 1	BASIC DEVICE	OMNIPORT30	OMNIPORT30
POSITION 2	CABLE 2 m (6.6 ft)		HA010813
POSITION 3	PROBES		
	Humidity / Temperature	LOGPROBE20-HTPC LOGPROBE20-HTPA	LOGPROBE16 LOGPROBE31 LOGPROBE30
	Air Velocity		LOGPROBE61 LOGPROBE60 LOGPROBE65
	CO₂	LOGPROBE802 LOGPROBE805 LOGPROBE810	
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 Ø 12 mm RH/T probes)	HA010118
Metal grid filter PC (for Ø 12 mm RH/T probes)	HA010119
Stainless steel sintered filter (for Ø 12 mm RH/T probe)	HA010103
Plastic grid filter PC (for Logprobe 20-HTPA)	HA010121
Cable for remote probes 2m (6.6 ft)	HA010813
Humidity standards / Calibration device	refer to data sheet Humidity Calibration Set
SmartGraph 3 - data management software	free download at www.epluse.com/smartgraph3