E+E *YOUR PARTNER IN SENSOR TECHNOLOGY*
ELEKTRONIK® *Ges.m.b.H.*

OMNIPORT 30

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

OMNIPORT 30

with RH/T probe   **with CO_2 probe**

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	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	Hand-held: EN61000-6-2:2005 EN61000-6-3:2007
	Logprobe: EN61326-1:2013 EN61326-2-3:2013

CE

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

43 (1.7")   32 (1.3")

Ø12 (0.47")
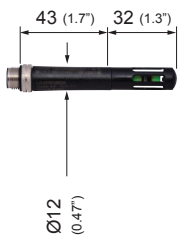
Working range: 0...100% RH / -40...80°C (-40...176°F)
Accuracy: ±2% RH (0...90% RH), ±3% RH (90...100% RH) @20°C / 68°F
±0.2°C / ±0.36°F @20°C / 68°F
max. ±0.6°C / ±1.08°F (-40...80°C / -40...176°F)
Order code: **LOGPROBE20-HTPC**
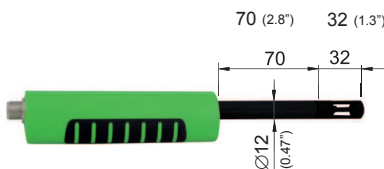Response time τ_{90}: ≤ 30 sec.
Filter: Membrane filter

Order code: **LOGPROBE20-HTPA**
Response time τ_{90} ≤ 10 sec.
Filter: Plastic grid filter

LOGPROBE 16 - HVAC probe

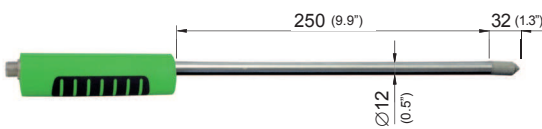70 (2.8")   32 (1.3")
70   32
Ø12 (0.47")

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
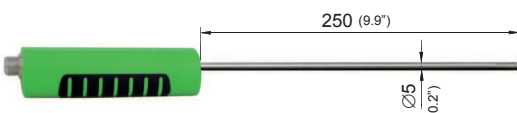
250 (9.9")   32 (1.3")
Ø12 (0.5")

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

250 (9.9")
Ø5 (0.2")

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
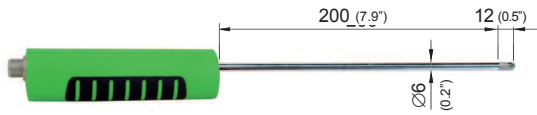max. ±0.6°C / ±1.08°F (-40...100°C / -40...212°F)
Response time τ_{90}: ≤ 15 sec.
Temperature dependency: RH: ±0.03% RH/°C (% RH/1.8°F)
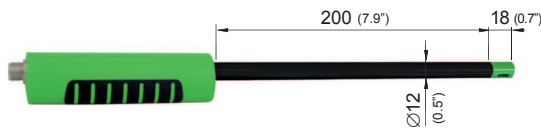Order code: **LOGPROBE30**

AIR VELOCITY PROBES

LOGPROBE 61/60 - stainless steel probe

200 (7.9")   12 (0.5")

∅6 (0.2")

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

200 (7.9")   18 (0.7")

∅12 (0.5")

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**

CO_2 PROBE

LOGPROBE 802/805/810 - CO_2 probe

96 (3.8")

18.5 (0.7")

LOGPROBE802
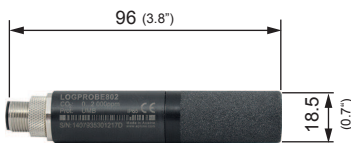
Working range:	0...2000 / 5000 / 10000ppm
Technology:	dual wave NDIR with autocalibration
Accuracy at 25°C	0...2000ppm: < ± (50ppm +2% of measured value)
and 1013mbar	0...5000ppm: < ± (50ppm +3% of measured value)
(77°F and 14.69psi)	0...10000ppm: < ± (100ppm +5% of measured value)
Warm-up time:	3 min.
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.

HA040906

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.

HA040907

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			
		LOGPROBE 20 - Response time ≤ 30 sec.	LOGPROBE20-HTPC	
		LOGPROBE 20 - Response time ≤ 10 sec.	LOGPROBE20-HTPA	
		LOGPROBE 16 - HVAC probe		LOGPROBE16
		LOGPROBE 31 - high temperature probe		LOGPROBE31
		LOGPROBE 30 - confined space probe		LOGPROBE30
	Air Velocity			
		LOGPROBE 61 - stainless steel probe / 0.08...2m/s (15...400ft/min)		LOGPROBE61
		LOGPROBE 60 - stainless steel probe / 0.2...20m/s (40...4000ft/min)		LOGPROBE60
		LOGPROBE 65 - polycarbonate probe / 0.2...20m/s (40...4000ft/min)		LOGPROBE65
	CO_2			
		LOGPROBE 802 - 0...2000ppm	LOGPROBE802	
		LOGPROBE 805 - 0...5000ppm	LOGPROBE805	
		LOGPROBE 810 - 0...10000ppm	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 ⌀12mm RH/T probes)	HA010118
Metal grid filter PC (for ⌀12mm RH/T probes)	HA010119
Stainless steel sintered filter (for ⌀12mm RH/T probe)	HA010103
Plastic grid filter PC (for Logprobe 20-HTPA)	HA010121
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