

OMNIPOINT 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 22 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



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 Omnipoint 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**
- 22 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

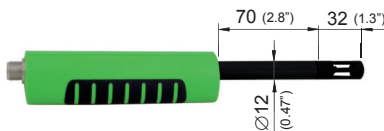


Working range: 0...100% RH / -40...80°C (-40...176°F)
 Accuracy: ±2% RH (0...90% RH), ±3% RH (90...100% RH) @20°C / 68°F
 ±0.2°C / ±0.36°F @20°C / 68°F
 max. ±0.6°C / ±1.08°F (-40...80°C / -40...176°F)

Response time τ_{90} : ≤ 30 sec.

Order code: **LOGPROBE20-HTPC**

LOGPROBE 16 - HVAC probe

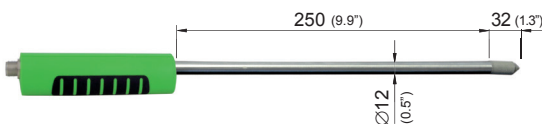


Working range: 0...100% RH / -20...70°C (-4...158°F)
 Accuracy: ±2% RH (0...90% RH), ±3% RH (90...100% RH) @20°C / 68°F
 ±0.2°C / ±0.36°F @20°C / 68°F
 max. ±0.5°C / ±0.9°F (-20...70°C / -4...158°F)

Response time τ_{90} : ≤ 7 sec.

Order code: **LOGPROBE16**

LOGPROBE 31 - high temperature probe



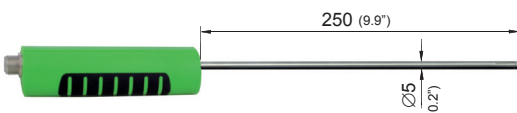
Working range: 0...100% RH / -40...180°C (-40...356°F)
 (grip of sensing probe up to 50°C/122°F)
 Accuracy: ±2% RH (0...90% RH), ±3% RH (90...100% RH) @20°C / 68°F
 ±0.2°C / ±0.36°F @20°C / 68°F
 max. ±0.6°C / ±1.08°F (-40...180°C / -40...356°F)

Response time τ_{90} : ≤ 30 sec.

Temperature dependence: 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)

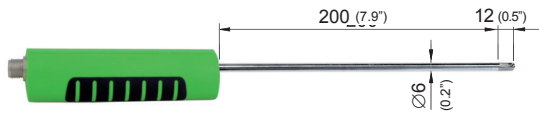
Response time τ_{90} : ≤ 15 sec.

Temperature dependence: RH: ±0.03% RH/°C (% RH/1.8°F)

Order code: **LOGPROBE30**

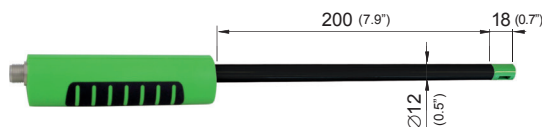
Air Velocity Probes:

LOGPROBE 61/60 - stainless steel probe



Working range:	0.08...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



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

Ordering Guide

		Pluggable Probes ¹⁾	Remote Probes ²⁾
POSITION 1 BASIC DEVICE		OMNIPOINT30	OMNIPOINT30
POSITION 2 CABLE	2m (6.6ft)		HA010813
POSITION 3 PROBES			
Humidity / Temperature		LOGPROBE20-HTPC	
LOGPROBE 20 - compact, pluggable HVAC probe			LOGPROBE16
LOGPROBE 16 - HVAC probe			LOGPROBE31
LOGPROBE 31 - high temperature probe			LOGPROBE30
LOGPROBE 30 - confined space probe			
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
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	OMNIPOINT30
Position 2 - Probe	LOGPROBE20-HTPC
Position 3 - Carrying Case	HA040906

Remote Probes:

Position 1 - Basic Device	OMNIPOINT30
Position 2 - Cable	HA010813
Position 3 - Probes	LOGPROBE16 LOGPROBE61
Position 4 - Carrying Case	HA040906



Carrying Case: **HA040906**

Accessories

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
Carrying case for basic device, 2 pluggable and 2 remote probes	HA040906
SmartGraph 3 - data management software	free download at www.epluse.com/smartgraph3