

# 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 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<sub>2</sub> 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 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
- 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 ( <b>not in the scope of supply</b> )		
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

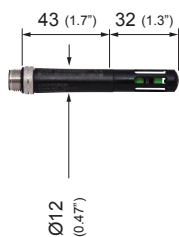


### Integrated air pressure sensor

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  $\tau_{90}$ : ≤ 30 sec.

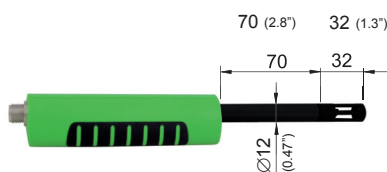
Filter: Membrane filter

Order code: **LOGPROBE20-HTPA**

Response time  $\tau_{90}$ : ≤ 10 sec.

Filter: Plastic grid filter

### LOGPROBE 16 - HVAC probe

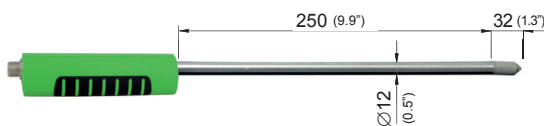


Working range: 0...100% RH / -20...70°C (-4...158°F)  
 Accuracy: ±2% RH (0...90% RH), ±3% RH (90...100% RH) @20°C / 68°F  
 ±0.2°C / ±0.36°F @20°C / 68°F  
 max. ±0.5°C / ±0.9°F (-20...70°C / -4...158°F)

Response time  $\tau_{90}$ : ≤ 7 sec.

Order code: **LOGPROBE16**

### LOGPROBE 31 - high temperature probe



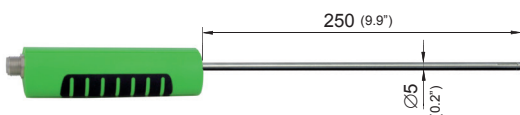
Working range: 0...100% RH / -40...180°C (-40...356°F)  
 (grip of sensing probe up to 50°C/122°F)  
 Accuracy: ±2% RH (0...90% RH), ±3% RH (90...100% RH) @20°C / 68°F  
 ±0.2°C / ±0.36°F @20°C / 68°F  
 max. ±0.6°C / ±1.08°F (-40...180°C / -40...356°F)

Response time  $\tau_{90}$ : ≤ 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)

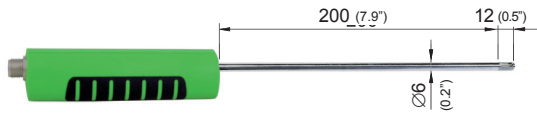
Response time  $\tau_{90}$ : ≤ 15 sec.

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

Order code: **LOGPROBE30**

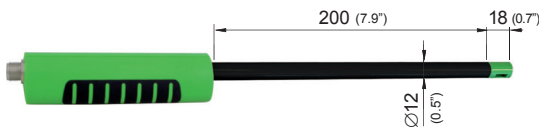
## AIR VELOCITY PROBES

### LOGPROBE 61/60 - stainless steel probe



Working range:	0.08...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 $\tau_{90}$ :	≤ 1.5 sec.	
Order code:	<b>LOGPROBE61</b>	<b>LOGPROBE60</b>

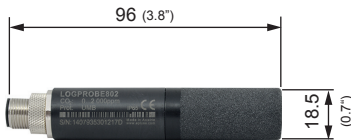
### LOGPROBE 65 - polycarbonate probe



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 $\tau_{90}$ :	≤ 1.5 sec.
Order code:	<b>LOGPROBE65</b>

## CO<sub>2</sub> PROBE

### LOGPROBE 802/805/810 - CO<sub>2</sub> 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 <sub>2</sub> /°C (-20...45°C) (-4...113°F)
Order code:	0...2000ppm <b>LOGPROBE802</b> 0...5000ppm <b>LOGPROBE805</b> 0...10000ppm <b>LOGPROBE810</b>

## 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 <sup>1)</sup>	Remote Probes <sup>2)</sup>
<b>POSITION 1</b>	<b>BASIC DEVICE</b>	OMNIPOINT30	OMNIPOINT30
<b>POSITION 2</b>	<b>CABLE</b> 2m (6.6ft)		HA010813
<b>POSITION 3</b>	<b>PROBES</b>		
	<b>Humidity / Temperature</b>	LOGPROBE20-HTPC LOGPROBE20-HTPA	LOGPROBE16 LOGPROBE31 LOGPROBE30
	LOGPROBE 20 - Response time ≤ 30 sec.		
	LOGPROBE 20 - Response time ≤ 10 sec.		
	LOGPROBE 16 - HVAC probe		
	LOGPROBE 31 - high temperature probe		
	LOGPROBE 30 - confined space probe		
	<b>Air Velocity</b>		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...400ft/min)		
	LOGPROBE 65 - polycarbonate probe / 0.2...20m/s (40...400ft/min)		
	<b>CO<sub>2</sub></b>	LOGPROBE802 LOGPROBE805 LOGPROBE810	
	LOGPROBE 802 - 0...2000ppm		
	LOGPROBE 805 - 0...5000ppm		
	LOGPROBE 810 - 0...10000ppm		
<b>POSITION 4</b>	<b>CARRYING CASE</b> 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 **LOGPROBE805**  
 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**

## Accessories

Carrying case for basic device, 2 pluggable and 2 remote probes	<b>HA040906</b>
Protective cover	<b>HA040907</b>
Membrane filter PC (for Ø12mm RH/T probes)	<b>HA010118</b>
Metal grid filter PC (for Ø12mm RH/T probes)	<b>HA010119</b>
Stainless steel sintered filter (for Ø12mm RH/T probe)	<b>HA010103</b>
Plastic grid filter PC (for Logprobe 20-HTPA)	<b>HA010121</b>
Cable for remote probes 2m (6.6ft)	<b>HA010813</b>
Humidity standards / Calibration device	refer to data sheet Humidity Calibration Set
SmartGraph 3 - data management software	free download at <a href="http://www.epluse.com/smartgraph3">www.epluse.com/smartgraph3</a>