

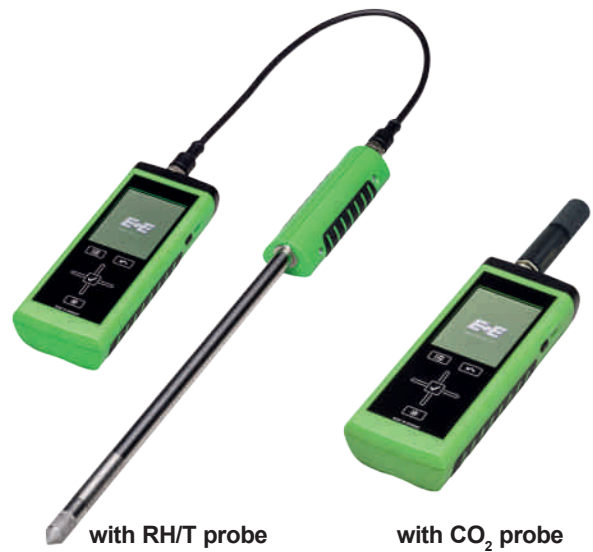
Omniport 30

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
- CO₂ ppm

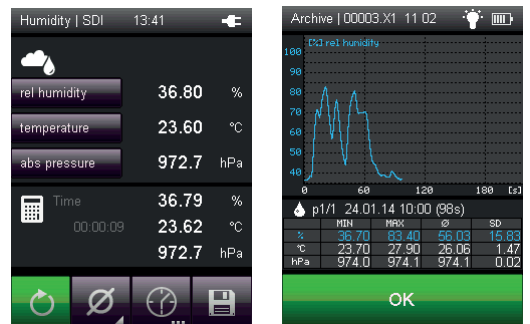


Store measurement values in the internal memory of the device and use the free SmartGraph3 software to manage data on your PC. The optional carrying case accommodates the hand-held and probes, as well as accessories.

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.

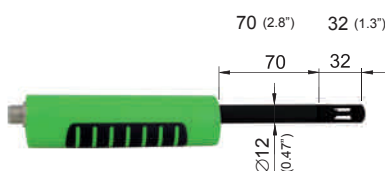
Filter: Membrane filter

Order code: **LOGPROBE20-HTPA**

Response time τ_{90} : ≤ 10 sec.

Filter: Plastic grid filter

Logprobe 16 - HVAC probe

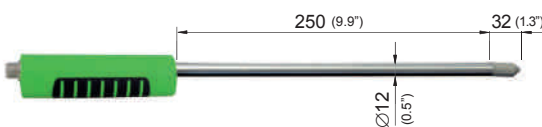


| | |
|----------------|---|
| Working range: | 0...100 % RH / -20...70 °C (-4...158 °F) |
| Accuracy: | ±2 % RH (0...90 % RH), ±3 % RH (90...100% RH) @20 °C / 68 °F ±0.2 °C / ±0.36 °F @20 °C / 68 °F max. ±0.5 °C / ±0.9 °F (-20...70 °C / -4...158 °F) |

Response time τ_{90} : ≤ 7 sec.

Order code: **LOGPROBE16**

Logprobe 31 - high temperature probe



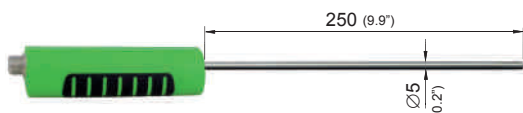
| | |
|----------------|---|
| Working range: | 0...100 % RH / -40...180 °C (-40...356 °F) (grip of sensing probe up to 50 °C / 122 °F) |
| Accuracy: | ±2 % RH (0...90 % RH), ±3 % RH (90...100 % RH) @20 °C / 68 °F ±0.2 °C / ±0.36 °F @20 °C / 68 °F max. ±0.6 °C / ±1.08 °F (-40...180 °C / -40...356 °F)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

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) |

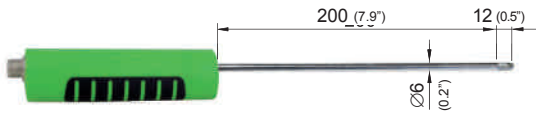
Response time τ_{90} : ≤ 15 sec.

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

Order code: **LOGPROBE30**

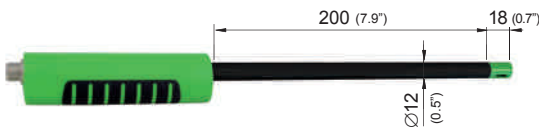
AIR VELOCITY PROBES

Logprobe 61/60 - stainless steel probe



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

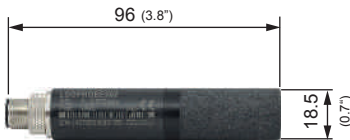
Logprobe 65 - polycarbonate probe



| | |
|-----------------------------|---|
| Working range: | 0.2...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 (77 °F and 14.69 psi) and 1013mbar | 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.



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 helps keep your hands free while taking measurements.



Ordering Guide

| | | Pluggable Probes ¹⁾ | Remote Probes ²⁾ |
|-------------------|--|---|--|
| POSITION 1 | BASIC DEVICE | OMNIPOINT30-T30 | OMNIPOINT30-T30 |
| POSITION 2 | CABLE 2 m (6.6 ft) | | HA010813 |
| POSITION 3 | PROBES | | |
| | Humidity / Temperature | LOGPROBE20-HTPC LOGPROBE20-HTPA | LOGPROBE16 LOGPROBE31 LOGPROBE30 |
| | Logeprobe 20 - Response time ≤ 30 sec. | | |
| | Logeprobe 20 - Response time ≤ 10 sec. | | |
| | Logeprobe 16 - HVAC probe | | |
| | Logeprobe 31 - high temperature probe | | |
| | Logeprobe 30 - confined space probe | | |
| | Air Velocity | | LOGPROBE61 LOGPROBE60 LOGPROBE65 |
| | Logeprobe 61 - stainless steel probe / 0.08...2 m/s (15...400 ft/min) | | |
| | Logeprobe 60 - stainless steel probe / 0.2...20 m/s (40...4000 ft/min) | | |
| | Logeprobe 65 - polycarbonate probe / 0.2...20 m/s (40...4000 ft/min) | | |
| | CO₂ | LOGPROBE802 LOGPROBE805 LOGPROBE810 | |
| | Logeprobe 802 - 0...2000 ppm | | |
| | Logeprobe 805 - 0...5000 ppm | | |
| | Logeprobe 810 - 0...10000 ppm | | |
| 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-T30**
 Position 2 - Probe **LOGPROBE805**
 Position 3 - Carrying Case **HA040906**

Remote Probes:

Position 1 - Basic Device **OMNIPOINT30-T30**
 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 |