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.

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 y
- 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 rating ABS / IP40
Dimensions (HxWxD) 170 x 62 x 34 mm (6.69 x 2.44 x 1.34”)
Weight Approx. 205 g (0.45 lbs)
Display TFT display, 54 x 41 mm (2.13 x 1.61”), illuminated
CE compatibility Hand-held:  EN 61000-6-2:2005  EN 61000-6-3:2007

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 s
Filter: Membrane

Logprobe 20-HTPA

Response time τ_{90} ≤ 10 s
Filter: Plastic grid

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)

Order code: LOGPROBE20-HPA
Response time τ_{90} ≤ 7 s

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 s
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 s
Temperature dependency: RH: ±0.03 % RH/°C (% RH/1.8 °F)
Order code: LOGPROBE30
AIR VELOCITY PROBES

Logprobe 60/61 - stainless steel probe

- Working range: 0.4...20 m/s (80...4000 ft/min) / 0.12...2 m/s (24...400 ft/min)
- Accuracy at 20 °C (68 °F) / 45 %RH / 1013 mbar (14.69 psi):
  \[ \pm (0.2 \text{ m/s } / 40 \text{ ft/min } + 2 \% \text{ of m.v.}) \pm (0.04 \text{ m/s } / 8 \text{ ft/min } + 1 \% \text{ of m.v.}) \]
- Response time \( t_{90} \): \( \leq 1.5 \text{ s} \)
- T working range: -20...70 °C (-4...158 °F)
- T accuracy: \( \pm 0.7 \text{ °C } / \pm 1.26 \text{ °F } (v > 0.5 \text{ m/s } / 0...50 \text{ °C } / 32...122 \text{ °F}) \)
  \( \pm 1.2 \text{ °C } / \pm 2.16 \text{ °F } (v = 0.2...0.5 \text{ m/s } / 0...50 \text{ °C } / 32...122 \text{ °F}) \)
- Order code: LOGPROBE60, LOGPROBE61

Logprobe 65 - polycarbonate probe

- Working range: 0.4...20 m/s (80...4000 ft/min) / 0...50 °C (32...122 °F)
- Accuracy:
  \[ \pm (0.2 \text{ m/s } / 30 \text{ ft/min } + 3 \% \text{ of m.v.}) \] \[ \pm 1 \text{ °C } / \pm 1.8 \text{ °F } (0...50 \text{ °C } / 32...122 \text{ °F}) \]
- Response time \( t_{90} \): \( \leq 1.5 \text{ s} \)
- Order code: LOGPROBE65

CO₂ PROBE

Logprobe 802/805/810 - CO₂ probe

- Working range: 0...2000 / 5000 / 10000 ppm
- Technology: dual wavelength NDIR with auto-calibration
- Accuracy at 25 °C (77 °F and 14.69 psi):
  \( 0...2000 \text{ ppm: } \pm (50 \text{ ppm } + 2 \% \text{ of measured value}) \)
  \( 0...5000 \text{ ppm: } \pm (50 \text{ ppm } + 3 \% \text{ of measured value}) \)
  \( 0...10000 \text{ ppm: } \pm (100 \text{ ppm } + 5 \% \text{ of measured value}) \)
- Warm-up time: 3 min.
- Temperature dependency: typ. 1 ppm CO₂/°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

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<tr>
<th>POSITION 1</th>
<th>BASIC DEVICE</th>
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<tr>
<td><strong>Type</strong></td>
<td>Hand-held</td>
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<tr>
<th>POSITION 2</th>
<th>CABLE</th>
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<tbody>
<tr>
<td>2 m (6.6 ft)</td>
<td></td>
</tr>
<tr>
<td>5 m (16.4 ft)</td>
<td></td>
</tr>
<tr>
<td>10 m (32.8 ft)</td>
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<table>
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<tr>
<th>POSITION 3</th>
<th>PROBES</th>
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<td><strong>Humidity / Temperature</strong></td>
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<tr>
<td>Logprobe 20 - Response time ≤ 30 s</td>
<td>LOGPROBE20-HTPC</td>
</tr>
<tr>
<td>Logprobe 20 - Response time ≤ 10 s</td>
<td>LOGPROBE20-HTPA</td>
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<td>Logprobe 16 - HVAC probe</td>
<td>LOGPROBE16</td>
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<td>Logprobe 31 - high temperature probe</td>
<td>LOGPROBE31</td>
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<tr>
<td>Logprobe 30 - confined space probe</td>
<td>LOGPROBE30</td>
</tr>
</tbody>
</table>

| **Air Velocity** | |
| Logprobe 60 - stainless steel probe / 0.4...20 m/s (80...4 000 ft/min) | LOGPROBE60 |
| Logprobe 61 - stainless steel probe / 0.12...2 m/s (24...400 ft/min) | LOGPROBE61 |
| Logprobe 65 - polycarbonate probe / 0.4...20 m/s (80...4 000 ft/min) | LOGPROBE65 |

| **CO₂** | |
| Logprobe 802 - 0...2 000 ppm | LOGPROBE802 |
| Logprobe 805 - 0...5 000 ppm | LOGPROBE805 |
| Logprobe 810 - 0...10 000 ppm | LOGPROBE810 |

<table>
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<tr>
<th>POSITION 4</th>
<th>CARRYING CASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>For basic device and up to 4 probes</td>
<td>HA040906</td>
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</tbody>
</table>

### Order Example

**Pluggable Probes:**

- **Position 1** - Basic Device: OMNIPORT30-T30
- **Position 2** - Probe: LOGPROBE805
- **Position 3** - Carrying Case: HA040906

**Remote Probes:**

- **Position 1** - Basic Device: OMNIPORT30-T30
- **Position 2** - Cable: HA010813
- **Position 3** - Probes: LOGPROBE16
- **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 ∅ 12 mm RH/T probes): HA010118
- Metal grid filter PC (for ∅ 12 mm RH/T probes): HA010119
- Stainless steel sintered filter (for ∅ 12 mm RH/T probe): HA010103
- Plastic grid filter PC (for Logprobe 20-HTPA): HA010121
- Cable for remote probes:
  - 2 m (6.6 ft): HA010813
  - 5 m (16.4 ft): HA010814
  - 10 m (32.8 ft): HA010815
- Humidity standards / Calibration device: Refer to data sheet Humidity Calibration Kit
- SmartGraph3 - data management software: Free download at www.epluse.com/smartgraph3