AMI 310
Multifunction instrument

Features
- Hygrometry, temperature, CO₂, CO, air velocity, airflow, pressure, tachometry measurement (depending on model & probe)
- Expandable memory with micro-SD card
- 2 inputs for Pt100 temperature (from -200 to +600°C)
- Up to 6 measurements simultaneously
- Large color display

Interchangeable modules
1 device = several possible ranges & parameters

Wireless connection
Device/probe wireless connection

SMART-2014 system
Wireless & wired probes automatically recognized

Supplied with calibration certificate

References

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMI 310</td>
<td>Portable instrument only</td>
</tr>
<tr>
<td>AMI 310 CLA</td>
<td>Portable instrument - Ø70 mm vane probe - Hotwire probe</td>
</tr>
<tr>
<td>AMI 310 STD</td>
<td>Portable instrument - ±10000 Pa pressure module - Ø6 mm Pitot tube - 2 x 1 m of silicone tube - 1 stainless steel tip - ABS hygrometry probe - Hotwire probe - Ø100 mm vane probe</td>
</tr>
<tr>
<td>AMI 310 PRO</td>
<td>Portable instrument - ±500 Pa pressure module - Ø6 mm T Pitot tube - 2 x 1 m of silicone tube - 1 stainless steel tip - Stainless steel hygrometry probe - Telescopic hotwire probe - Ø100 mm telescopic vane probe</td>
</tr>
<tr>
<td>AMI 310 CRF</td>
<td>Portable instrument - Wireless ABS hygrometry probe - Hotwire probe - Wireless Ø70 mm vane probe</td>
</tr>
<tr>
<td>AMI 310 SRF</td>
<td>Portable instrument - ±10000 Pa pressure module - Ø6 mm Pitot tube - 2 x 1 m of silicone tube - 1 stainless steel tip - Wireless ABS hygrometry probe - Hotwire probe - Wireless Ø100 mm vane probe</td>
</tr>
<tr>
<td>AMI 310 PRF</td>
<td>Portable instrument - ±500 Pa pressure module - Ø6 mm T Pitot tube - 2 x 1 m of silicone tube - 1 stainless steel tip - Telescopic hotwire probe - Wireless stainless steel hygrometry probe - Wireless Ø100 mm vane probe</td>
</tr>
<tr>
<td>AMI 310 SK</td>
<td>Portable instrument - ±500 Pa pressure module - Telescopic hotwire probe with gooseneck - Ø6 mm Pitot tube - 2 x 1 m of silicone tube (black &amp; white) - 1 stainless steel tip</td>
</tr>
</tbody>
</table>

The probes use a mini-DIN cable unique and pluggable that fits on every probes. Each device is supplied with 2 cables of this type.

The instruments are supplied in a transport case with a calibration certificate, a charger and a USB cable.
AMI 310 General features

**Connections**
- 2 mini-DIN connections SMART-2014 probes and 1 micro-USB port for charging and PC connection

**Power supply**
- Lithium-Ion battery

**Autonomy**
- 57 h with hygrometry probe

**Memory capacity**
- Up to 1000 dataset of 20 000 points in the internal memory + 4 GB micro-SD card

**Conditions of use**
- (°C/%RH/m)
  - From 0 to +50 °C. In non-condensation condition.
  - From 0 to +2000m.

**Storage temperature**
- From -20 to +80°C

**Auto shut-off**
- Adjustable from 15 to 120 minutes or Off

**Weight**
- 485 g

**Operating environment**
- Neutral gas

**European directives**
- 2014/30/EU ECM; 2014/35/EU Low tension; 2011/65/UE RoHS II; 2012/19/UE DEEE

**Languages**
- French, English, Dutch, German, Italian, Portuguese, Swedish, Norwegian, Finn, Danish, Chinese, Japanese

**Innovations**

**Expandable memory**
- These new instruments have an internal memory of 1000 datasets of 20 000 points. The AMI 310 also has a slot for a 4 GB micro-SD card (included in the delivery).

**Measure continuously**
- This new generation of instruments has a Li-ion battery, rechargeable directly on the instrument.

**Maintenance**
- We carry out calibration, adjustment and maintenance of your devices to guarantee a constant level of quality of your measurements. As part of Quality Assurance Standards, we recommend you to carry a yearly checking.

**Warranty**
- Devices have 1-year guarantee for any manufacturing defect (return to our After-Sales Service required for appraisal).

**Precautions for use**
- Please always use the device in accordance with its intended use and within parameters described in the technical features in order not to compromise the protection ensured by the device.

**Specifications probes & modules**

- **Air velocity & airflow probes**
  - Features in air velocity and airflow depend on the type of probe connected to the instrument.

<table>
<thead>
<tr>
<th>Probe</th>
<th>Units</th>
<th>Measuring range</th>
<th>Accuracy*</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø14 mm vane probe</td>
<td>Air velocity: m/s, fpm, km/h From 0 to 3 m/s From 1.1 to 25 m/s</td>
<td>From 0.8 to 3 m/s: ±3% of reading ±0.1 m/s From 3.1 to 25 m/s: ±1% of reading ±0.3 m/s</td>
<td>±0.1 m/s</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Airflow**: m³/h, chn, l/s, m³/s From 0 to 9999 m³/h</td>
<td>±3% of reading or ±0.03 m³/h</td>
<td>1 m³/h</td>
<td></td>
</tr>
<tr>
<td>Ø70 mm vane probe</td>
<td>Temperature: °C, °F From -20 to +80 °C</td>
<td>±0.4% of reading ±0.3 °C</td>
<td>0.1 °C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Air velocity: m/s, fpm, km/h From -5 to 3 m/s From 3.1 to 35 m/s</td>
<td>From 0.4 to 3 m/s: ±3% of reading ±0.1 m/s From 3.1 to 35 m/s: ±1% of reading ±0.3 m/s</td>
<td>±0.1 m/s</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Airflow**: m³/h, chn, l/s, m³/s From 0 to 99999 m³/h</td>
<td>±3% of reading or ±0.03 m³/h</td>
<td>1 m³/h</td>
<td></td>
</tr>
<tr>
<td>Ø100 mm vane probe</td>
<td>Temperature: °C, °F From -20 to +80 °C</td>
<td>±0.4% of reading ±0.3 °C</td>
<td>0.1 °C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Air velocity: m/s, fpm, km/h From -5 to 3 m/s From 3.1 to 35 m/s</td>
<td>From 0.3 to 3 m/s: ±3% of reading ±0.1 m/s From 3.1 to 35 m/s: ±1% of reading ±0.3 m/s</td>
<td>±0.1 m/s</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Airflow**: m³/h, chn, l/s, m³/s From 0 to 99999 m³/h</td>
<td>±3% of reading or ±0.03 m³/h</td>
<td>1 m³/h</td>
<td></td>
</tr>
<tr>
<td>Hotwire probe</td>
<td>Temperature: °C, °F From -20 to +80 °C</td>
<td>±0.4% of reading ±0.3 °C</td>
<td>0.1 °C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Air velocity: m/s, fpm, km/h From 0.15 to 1 m/s From 0.15 to 3 m/s From 1.1 to 30 m/s</td>
<td>From 0.15 to 1 m/s: ±2% of reading ±0.03 m³/h (Specific adjustment and calibration in option) From 1.1 to 30 m/s: ±3% of reading ±0.1 m/s</td>
<td>±0.1 m/s</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Airflow**: m³/h, chn, l/s, m³/s From 0 to 9999 m³/h</td>
<td>±3% of reading or ±0.03 m³/h</td>
<td>1 m³/h</td>
<td></td>
</tr>
</tbody>
</table>

AMI 310 instruments have the following functions for the measurement of air velocity and airflow:
- Selection of the Pitot tube or Debimo blade or coefficient
- Selection of the section
- Selection of the unit
- Automatic or manual temperature compensation
- Manual atmospheric pressure compensation

*All accuracies indicated in this document were stated in laboratory conditions and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

**Calculated parameters. / ***Depending on the differential pressure element connected to the instrument.
*Calculated parameters.* Depending on the differential pressure element connected to the instrument.

All accuracies indicated in this document were stated in laboratory conditions and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

**Pressure modules, Pitot tubes and Debimo blades**

<table>
<thead>
<tr>
<th>Pressure module</th>
<th>Units</th>
<th>Measuring range</th>
<th>Accuracy*</th>
<th>Resolution</th>
<th>Tolerated overpressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPR 500</td>
<td>Pa, mml, l, in WG, mbar, hPa, mmHg, daPa, kPa</td>
<td>From 0 to ±500 Pa From 2 to 28 m/s***</td>
<td>±0.2% of reading ±0.2% of reading</td>
<td>From -100 to +100 Pa: ±0.2% of reading</td>
<td>From -100 to +100 Pa 0.1 Pa Beyond: ±0.2% Beyond: ±0.2% Beyond: ±0.2% of reading</td>
</tr>
<tr>
<td>MPR 2500</td>
<td>Pa, mml, l, in WG, mbar, hPa, mmHg, daPa, kPa</td>
<td>From 0 to ±2500 Pa From 2 to 60 m/s***</td>
<td>±0.2% of reading ±0.2% of reading</td>
<td>From -100 to +100 Pa 0.1 Pa Beyond: ±0.2% Beyond: ±0.2% Beyond: ±0.2% of reading</td>
<td>From -100 to +100 Pa 0.1 Pa Beyond: ±0.2% Beyond: ±0.2% Beyond: ±0.2% of reading</td>
</tr>
<tr>
<td>MPR 10000</td>
<td>mmHg, l, in WG, mbar, hPa, mmHg, daPa, kPa</td>
<td>From 0 to ±10000 Pa From 4 to 100 m/s***</td>
<td>±0.2% of reading ±0.2% of reading</td>
<td>From -100 to +100 Pa 0.1 Pa Beyond: ±0.2% Beyond: ±0.2% Beyond: ±0.2% of reading</td>
<td>From -100 to +100 Pa 0.1 Pa Beyond: ±0.2% Beyond: ±0.2% Beyond: ±0.2% of reading</td>
</tr>
<tr>
<td>MPR 500 M</td>
<td>mmHg, l, in WG, mbar, hPa, mmHg, daPa, kPa</td>
<td>From 0 to ±500 mbar From 9 to 100 m/s***</td>
<td>±0.2% of reading ±0.2% of reading</td>
<td>From -100 to +100 Pa 0.1 Pa Beyond: ±0.2% Beyond: ±0.2% Beyond: ±0.2% of reading</td>
<td>From -100 to +100 Pa 0.1 Pa Beyond: ±0.2% Beyond: ±0.2% Beyond: ±0.2% of reading</td>
</tr>
<tr>
<td>MPR 2000 M</td>
<td>mmHg, l, in WG, mbar, hPa, mmHg, daPa, kPa</td>
<td>From 0 to ±2000 mbar From 18 to 100 m/s***</td>
<td>±0.2% of reading ±0.2% of reading</td>
<td>From -100 to +100 Pa 0.1 Pa Beyond: ±0.2% Beyond: ±0.2% Beyond: ±0.2% of reading</td>
<td>From -100 to +100 Pa 0.1 Pa Beyond: ±0.2% Beyond: ±0.2% Beyond: ±0.2% of reading</td>
</tr>
</tbody>
</table>

Pressure modules also have a thermocouple connection allowing to connect a K, J, T or S thermocouple probe.

**Hygrometry probes**

<table>
<thead>
<tr>
<th>Thermocouple</th>
<th>Units</th>
<th>Measuring range</th>
<th>Accuracy*</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>K, J, N, T;</td>
<td>°C, °F</td>
<td>From -200 to +1300 °C From -100 to +750 °C From -20 to +40 °C From 0 to 1760 °C</td>
<td>±0.3 m/s ±0.5% of reading ±0.2 m/s</td>
<td>±0.1 m/s</td>
</tr>
</tbody>
</table>

AMI 310 instruments have the following functions for the measurements of pressure:

Automatic autozero by solenoid valve (AMI310 PRO, PRF) / Manual autozero (AMI310 CLA, STD, CRF and SRF) / Pressure integration (0 to 9) / Point/point average / Automatic point/point average / Automatic average

**Hygrometry probes**

<table>
<thead>
<tr>
<th>SHR 110 and SHR 300</th>
<th>Units</th>
<th>Measuring range</th>
<th>Accuracy*</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absolute humidity**; g/m³</td>
<td>From 0 to 600 g/m³</td>
<td>±0.6% of reading</td>
<td>±0.5 °C</td>
<td>±0.1 °C</td>
</tr>
<tr>
<td>Dew-point**; °C; °F</td>
<td>From -50 to +100 °C</td>
<td>±0.6% of reading</td>
<td>±0.5 °C</td>
<td>±0.1 °C</td>
</tr>
<tr>
<td>Wet temperature**; °C; °F</td>
<td>From -50 to +100 °C</td>
<td>±0.6% of reading</td>
<td>±0.5 °C</td>
<td>±0.1 °C</td>
</tr>
<tr>
<td>Enthalpy**; kJ/kg</td>
<td>From 0 to 10 000 kJ/kg</td>
<td>±0.6% of reading</td>
<td>±0.5 °C</td>
<td>±0.1 °C</td>
</tr>
<tr>
<td>Temperature; °C; °F</td>
<td>From -20 to +80 °C (SHR110) From -40 to +180 °C (SHR 300)</td>
<td>±0.3% of reading</td>
<td>±0.25 °C</td>
<td>±0.1 °C</td>
</tr>
<tr>
<td>Combination ratio**; g/kg</td>
<td>From 0 to 10 000 g/kg</td>
<td>±0.3% of reading</td>
<td>±0.25 °C</td>
<td>±0.1 °C</td>
</tr>
</tbody>
</table>

**Omnidirectional probe of airstream SOM 900**

<table>
<thead>
<tr>
<th>Units</th>
<th>Measuring range</th>
<th>Accuracy*</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative humidity; %RH</td>
<td>From 3 to 98% RH</td>
<td>±3% of reading</td>
<td>±0.04 x (T-20) %RH</td>
</tr>
<tr>
<td>Temperature; °C; °F</td>
<td>From -20 to +80 °C</td>
<td>±0.3% of reading</td>
<td>±0.25 °C</td>
</tr>
</tbody>
</table>

**CO₂/Hygrometry/temperature probe SOCHE 112**

<table>
<thead>
<tr>
<th>Units</th>
<th>Measuring range</th>
<th>Accuracy*</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative humidity; %RH</td>
<td>From 5 to 95% RH</td>
<td>±3% of reading</td>
<td>±0.04 x (T-20) %RH</td>
</tr>
<tr>
<td>Temperature; °C; °F</td>
<td>From -20 to +80 °C</td>
<td>±0.3% of reading</td>
<td>±0.25 °C</td>
</tr>
<tr>
<td>CO₂; ppm</td>
<td>From 21 to 40 m/s</td>
<td>±3% of reading</td>
<td>±0.5 mbar</td>
</tr>
</tbody>
</table>

AMI 310 instruments can also calculate and display the WBGT index that corresponds to a index of composite temperature used to estimate the effect of temperature, humidity and solar radiation on humans. It is calculated from the following temperatures:

- \( T_1 \) = Wet-bulb temperature or natural wet temperature, measurement calculated from the relative humidity of a thermo-hygro probe;
- \( T_2 \) = Globe temperature, measured with a globe thermometer, or black globe thermometer, whose sensitive element is in black glass or black-smoke coated in order to run approximatively as a black body to measure the solar radiation. The measurement is realised with a temperature probe placed in a black ball;
- \( T_3 \) = Air temperature (measured by a thermometer whose bulb is protected from the solar radiation by a screen). The temperature measurement is realised with a thermo-hygro probe;

AMI 310 instruments have the following functions for the measurement of temperature, hygrometry and air quality:

- **Air Quality probes (CO / temperature, CO₂ / temperature, CO₂ / temperature / hygrometry):** Audible alarm (2 setpoints), Selection of units, Hold function, minimum and maximum values
- **Thermocouple module:** Delta T, Alarm (lower and upper setpoints), Selection of units, Hold function, minimum and maximum values

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**Calculated parameters.*** Depending on the differential pressure element connected to the instrument.
**Delivery kits and options**

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<tr>
<th>Description</th>
<th>AMI 310</th>
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<th>AMI 310 STD</th>
<th>AMI 310 PRO</th>
<th>AMI 310 CRF</th>
<th>AMI 310 SRF</th>
<th>AMI 310 PRF</th>
<th>AMI 310 SK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure module from 0 to ±500 Pa (MPR 500)</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
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<td>Optional</td>
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<tr>
<td>Pressure module from 0 to ±2500 Pa (MPR 2500)</td>
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<td>Optional</td>
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<tr>
<td>Pressure module from 0 to ±1000 Pa (MPR 1000)</td>
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<td>Optional</td>
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<tr>
<td>Pressure module from 0 to ±500 mbar (MPR 500 M)</td>
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<td>Optional</td>
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<tr>
<td>Pressure module from 0 to ±2000 mbar (MPR 2000 M)</td>
<td>Optional</td>
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<tr>
<td>4 thermocouple channels module (M4TC)</td>
<td>Optional</td>
<td>Optional</td>
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<tr>
<td>Climatic conditions module (MCC)</td>
<td>Optional</td>
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<tr>
<td>U coefficient module (MCU)</td>
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<td>Optional</td>
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<td>Optional</td>
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<td>Optional</td>
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<tr>
<td>2 x 1 m of Ø 4 x 7 mm silicone tube</td>
<td>Optional</td>
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<td>✔</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
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</tr>
<tr>
<td>Ø 6 x 100 mm silicone tip</td>
<td>Optional</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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</tr>
<tr>
<td>Ø 6 mm, 300 mm length Pitot tube</td>
<td>Optional</td>
<td>Option</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Ø 6 mm, 300 mm length T Pitot tube</td>
<td>Optional</td>
<td>Option</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Ø 6 mm, 300 mm length 5 Pitot tube</td>
<td>Optional</td>
<td>Option</td>
<td>✔</td>
<td>✔</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Telescopic omnidirectional probe (SOM 900)</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
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<td>Optional</td>
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<tr>
<td>Multifunction probe (SMT 900)</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
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<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td>ABS hygrometry probe (SHRF 110)</td>
<td>Optional</td>
<td>Optional</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Wireless ABS hygrometry probe (SHRF 110)</td>
<td>Optional</td>
<td>Optional</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<td>✔</td>
</tr>
<tr>
<td>Stainless steel hygrometry probe (SHR 300)</td>
<td>Optional</td>
<td>Optional</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Wireless stainless steel hygrometry probe (SHRF 300)</td>
<td>Optional</td>
<td>Optional</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<td>✔</td>
</tr>
<tr>
<td>CO / temperature probe (SCO 110)</td>
<td>Optional</td>
<td>Optional</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<td>✔</td>
</tr>
<tr>
<td>CO₂ / temperature probe (SCO 112)</td>
<td>Optional</td>
<td>Optional</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>CO₂ / temperature / hygrometry probe (SCOCH 112)</td>
<td>Optional</td>
<td>Optional</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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</tr>
<tr>
<td>Hotwire probe (SFC 300)</td>
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<td>Air velocity measurement probe for laboratory hood (SFC 300 S)</td>
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</table>

**Available probes and modules (optional)**

- **Light probe (SLU)**
  Measuring ranges from 0 to 150,000 lux and from 0 to 13,935 fc

- **Wireless hygrometry probe (SHRF 110)**
  Measuring range from -50°C to 100°C, -10°C to 80°C

- **Optical tachometry probe (STA)**
  Measuring range from 0 to 50,000 tr/min

- **Vane probe Ø14 mm**
  Measuring range from 0 to 25 m/s, 0 to 99,999 m³/h and from -20 to +80°C

- **CO₂/temperature probe (SCO 110)**
  Measuring range from 0 to 500 ppm and from -20 to +80°C

- **Debimo blades**
  Measuring range from 4 to 100 m/s and from 0 to 99,999 m³/h

- **Climatic conditions module (MCC)**
  Measuring range from 0 to ±50°C, 800 to 1100 hPa and 5 to 95% RH

- **Hotwire probe**
  Measuring range from 0.15 to 30 m/s, 0 to 99,999 m³/h and from -20 to +80°C

- **Airflow cones**
  Measuring range from 10 to 1200 m³/h depending on model

- **Large choice of temperature probes (see related datasheet): ambient / contact / penetration / immersion...**

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