

*New*

CE



Supplied with

Calibration certificate

# AMI 300 Multifunction



## Connection



**Interchangeable measurement modules**

1 instrument = more than 1 range and 1 parameter available.



**Wireless connection**

Instrument / PC  
Instrument / Probe



**Smart-plus system**

Probes automatically recognized when connected to the instrument.

## The multifunctions

AMI 300



AMI 300 CLA and AMI 300 CRF



AMI 300 STD and AMI 300 SRF



AMI 300 PRO and AMI 300 PRF



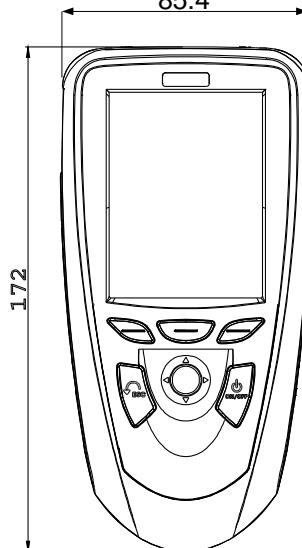
## Dimensions

• Front view

85.4

• Side view

57.1



## Functions



### Manometer

#### PRESSURE

- Automatic or manual self-calibration
- Selection of units
- Pressure integration (0 to 9)
- Point/point, automatic point/point, automatic average
- Minimum / maximum values, hold, standard deviation
- Storage



#### AIR VELOCITY AND AIRFLOW

- Selection of Pitot tube, Debimo blades, hotwire or factor for other sensing elements
- Selection of duct type
- Selection of units
- Point/point, automatic point/point, automatic average
- Manual or automatic temperature balancing
- Manual air pressure balancing
- K2 factor
- Minimum / maximum values, hold, standard deviation
- Storage



### Thermo-hygrometer



#### HYGROMETER

- Selection of units
- Minimum / maximum values and hold function
- Storage

#### PSYCHROMETER

- Dew point, wet temperature, enthalpy, absolute temperature
- Minimum / maximum values and hold function
- Storage

#### WBGT index

For hygrometry probe with black ball.

- Calculation of comfort index inside / outside
- Storage



### Air Quality

#### CLIMATIC CONDITIONS MODULE

- Selection of units
- Minimum / maximum values and hold function
- Storage

#### AIR QUALITY PROBES

- Audible Alarm (2 setpoints)
- CO maximum
- Selection of units
- Minimum / maximum values and hold function
- Storage



### Current / voltage module

- Adjustable ranges
- Minimum / maximum values and hold function
- Storage



### Thermometer

#### Thermocouple module, Pt100 and thermocouple temperature probes

- Dynamic delta T
- Selection of units
- Minimum / maximum values and hold function
- Alarme (upper and lower setpoints)
- Storage

## Datalogger-10



- Multi-parameters recording
- Manual and automatic storage
- Memory : up to 8,000 measurement points or 50 datasets
- User-friendly with printing of customized report
- Management of instruments pool, follow-up of calibration periods
- Intervention planning
- Wired or wireless interface

## Technical features

### Sensing elements

#### Pressure module Piezoresistive sensor

- Overpressure allowed  $\pm 500$  Pa : 250 mbar
- Overpressure allowed  $\pm 2500$  Pa : 500 mbar
- Overpressure allowed  $\pm 10,000$  Pa : 1,200 mbar
- Overpressure allowed  $\pm 500$  mbar : 2 bar
- Overpressure allowed  $\pm 2,000$  mbar : 6 bar

**Hotwire** : Thermistance with a negative temperature coefficient.

Ambient temperature : Pt100 1/3 Din.

**Ø 70 and 100 mm vane probes** : Hall effect sensor

Ambient temperature : Pt100 class A.

**Ø 14 mm vane probe** : Proximity sensor

Ambient temperature : Pt100 class A.

**Hygrometry/Temp. Probe** : capacitive sensor, Pt100 1/3 DIN

**Thermocouple probes** : type K, J and T class 1

**Pt100 probes Smart-plus** : Pt100 class 1/3 Din

#### Climatic conditions module

**Hygrometry** : capacitive sensor

**Temperature** : semiconductor sensor

**Air pressure** : piezoresistive sensor

#### Air quality probes

**CO<sub>2</sub>** : NDIR sensor

**CO** : electrochemical sensor

**Temperature** : Pt100 class A

**Hygrometry** : capacitive sensor

#### Climatic conditions module

**Hygrometry** : capacitive sensor

**Temperature** : semiconductive sensor

**Air pressure** : piezoresistive sensor

#### Multifunction probe

**Air velocity** : Thermistance with a negative temperature coefficient.

**Hygrometry/Temp.** : capacitive sensor, Pt100 1/3 DIN

#### Tachometry probe

**Optical** : optical sensor

**Contact** : optical probe with ETC adaptor

#### Instrument connections.....On the top :

2 secured mini-DIN connectors for SMART-Plus probes

#### Left side :

1 USB port for KIMO cable only

1 power supply plug

#### Module connections.....Thermocouple

4 inputs for compensated miniature plug of thermocouple type K, J or T Class 1 (as per IEC 584-3norm)

#### Pressure

2 pressure connectors Ø 6,2 mm made of nickelled brass.

2 threaded pressure connectors Ø 4,6 mm made of nickelled brass

+ 1 thermocouple temperature input for miniature connectors

#### Current / voltage module

2 stereo jacks

**Display**.....Graphic display 320x240 pixels

Dim. 70 x 52 mm, color display

Display of 6 measurements (including 4 simultaneously)

#### Housing

IP54, ABS shock-proof

**Keypad**.....Metal-coated, 5 keys, 1 joystick

**Conformity**.....Electromagnetical compatibility

(NF EN 61326-1 norm)

**Power supply**.....4 alkaline batteries 1,5V LR6

**Operating environment**.....Neutral gas

**Operating temperature**.....from 0 to 50°C








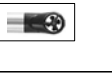

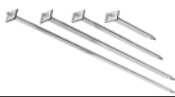



**Storage temperature**.....from -20 to +80°C

**Auto shut-off**.....adjustable from 0 to 120 min

**Weight**.....380g

**Languages**.....French, English, Dutch, German, Italian, Spanish, Portuguese, Swedish, Norwegian, Finn, Danish

## Specifications

|   | Measuring units  | Measuring range  | Accuracy*   | Resolutions  |   |
|---|--|--|---|--|---|
| <b>PRESSURE</b>   |  |  |   |  |   |
|    | Pa, mmH <sub>2</sub> O, In WG,<br>mbar, hPa, mmHg, DaPa                                      | from 0 to ±500 Pa<br>from 0 to ±2500 Pa<br>from 0 to ±10,000 Pa<br>from 0 to ±500 mBar<br>from 0 to ±2000 mBar | ± 100 Pa : ±0.2% reading ±0.8Pa,<br>beyond ±0.2% reading ±1.5Pa,<br>±0.2% of reading ±2Pa<br>±0.2% of reading ±10Pa<br>±0.2% of reading ±0,5mBar<br>±0.2% of reading ±2mBar | 0.1 Pa<br>1Pa<br>1Pa<br>1mBar<br>1mBar   |   |
| <b>CURRENT/VOLTAGE</b>  |  |  |   |  |   |
|    | V, mA  | from 0 to 2,5 V<br>from 0 to 10 V<br>from 0 to 4/20 mA   | ±1mV<br>±10mV<br>±0.01mA  | 0.001 V<br>0.01 V<br>0.01 mA   |   |
| <b>THERMOCOUPLE</b>   |  |  |   |  |   |
|    | °C, °F   | K : from -200 to +1,300°C<br>J : from -100 to +750°C<br>T : from -200 to +400°C                                | ±1.1°C or ±0.4% of reading**<br>±0.8°C or ±0.4% of reading**<br>±0.5°C or ±0.4% of reading**  | 0.1 °C<br>0.1 °C<br>0.1 °C   |   |
| <b>CLIMATIC CONDITIONS</b>  |  |  |   |  |   |
|    | Hygro.<br>Temp.<br>Air pressure  | %RH<br>°C, °F<br>hPa   | from 5 to 95%RH<br>from -20 to +80°C<br>from 800 to 1100 hPa  | See datasheet<br>interchangeable<br>measurement modules  | 0.1 %RH<br>0.1 °C<br>1 hPa                            |
| <b>HOTWIRE - Standard and telescopic -</b>  |  |  |   |  |   |
|    | Air velocity<br>Temperature<br>Airflow   | m/s, fpm, Km/h<br>°C, °F<br>m <sup>3</sup> /h, cfm, l/s, m <sup>3</sup> /s                                     | from 0.15 to 3 m/s<br>from 3.1 to 30 m/s<br>from -20 to +80°C<br>from 0 to 99,999 m <sup>3</sup> /h   | ±3% of reading ±0.03 m/s<br>±3% of reading ±0.1 m/s<br>±0.3% of reading ±0.25°C<br>±3% of reading ±0.03*area(cm <sup>2</sup> ) | 0.01 m/s<br>0.1 m/s<br>0.1 °C<br>1 m <sup>3</sup> /h  |
| <b>Ø 100 mm VANE PROBE</b>  |  |  |   |  |   |
|    | Air velocity<br>Temperature<br>Airflow   | m/s, fpm, Km/h<br>°C, °F<br>m <sup>3</sup> /h, cfm, l/s, m <sup>3</sup> /s                                     | from 0,25 to 3 m/s<br>from 3,1 to 35 m/s<br>from -20 to +80°C<br>from 0 to 99,999 m <sup>3</sup> /h   | ±3% of reading ±0,1m/s<br>±1% of reading ±0,3m/s<br>±0.4% of reading ±0.3°C<br>±3% of reading ±0.03*area (cm <sup>2</sup> )    | 0.01 m/s<br>0.1 m/s<br>0.1 °C<br>1 m <sup>3</sup> /h  |
| <b>Ø 70 mm VANE PROBE</b>   |  |  |   |  |   |
|  | Air velocity<br>Temperature<br>Airflow   | m/s, fpm, Km/h<br>°C, °F<br>m <sup>3</sup> /h, cfm, l/s, m <sup>3</sup> /s                                     | from 0, to 3 m/s<br>from 3,1 to 35 m/s<br>from -20 to +80°C<br>from 0 to 99,999 m <sup>3</sup> /h   | ±3% of reading ±0,1m/s<br>±1% of reading ±0,3m/s<br>±0.4% of reading ±0.3°C<br>±3% of reading ±0.03*area (cm <sup>2</sup> )    | 0.1 m/s<br>0.1 °C<br>1 m <sup>3</sup> /h              |
| <b>Ø 14 mm VANE PROBE</b>   |  |  |   |  |   |
|  | Air velocity<br>Airflow<br>Temperature   | m/s, fpm, Km/h<br>m <sup>3</sup> /h, cfm, l/s, m <sup>3</sup> /s<br>°C, °F                                     | from 0,8 to 3 m/s<br>from 3,1 to 40 m/s<br>from 0 to 99,999 m <sup>3</sup> /h<br>from -20 to +80°C  | ±3% of reading ±0,1m/s<br>±1% of reading ±0,3m/s<br>±3% of reading ±0.03*area (cm <sup>2</sup> )<br>±0.4% of reading ±0.3°C    | 0.1 m/s<br>1 m <sup>3</sup> /h<br>0.1 °C              |
| <b>PITOT TUBE</b>   |  |  |   |  |   |
|  | Air velocity<br>Airflow  | m/s, fpm, Km/h, mph<br>m <sup>3</sup> /h, cfm, l/s, m <sup>3</sup> /s  | from 2 to 5 m/s<br>from 5.1 to 100 m/s<br>from 0 to 99,999m <sup>3</sup> /h   | ±0.3 m/s<br>±0.5% of reading ±0.2m/s<br>±0.2% of reading ±1% PE  | 0.1 m/s<br>1 m <sup>3</sup> /h                        |
| <b>DEBIMO blades</b>  |  |  |   |  |   |
|  | Air velocity<br>Airflow  | m/s, fpm, Km/h, mph<br>m <sup>3</sup> /h, cfm, l/s, m <sup>3</sup> /s  | from 4 to 20 m/s<br>from 21 to 100 m/s<br>from 0 to 99,999m <sup>3</sup> /h   | ±0.3 m/s<br>±1% of reading ±0.1m/s<br>±0.2% of reading ±1% PE  | 0.1 m/s<br>0.1 m/s<br>1 m <sup>3</sup> /h             |
| <b>Air quality probes : CO / CO<sub>2</sub> / temperature / Hygrometry</b>          |  |  |   |  |   |
|  | Temperature<br>CO <sub>2</sub><br>CO<br>Relative humidity                                    | °C, °F<br>ppm<br>ppm<br>%RH  | from -20 to +80°C<br>from 0 to 5000 ppm<br>from 0 to 1,000 ppm<br>from 5 to 95%RH   | See related datasheet<br>"Portable probes"   | 0.1 °C<br>1 ppm<br>1 ppm<br>0.1 %RH                   |
| <b>STANDARD HYGROMETRY probe</b>  |  |  |   |  |   |
|  | STD<br>Relative humidity<br>Absolute humidity / enthalpy<br>Dew point<br>Ambient temperature | %RH<br>g/Kg / Kj/Kg<br>°C <sub>td</sub> , °F <sub>td</sub><br>°C, °F   | from 3 to 98 %RH<br>According to temperature and<br>hygrometry measuring ranges<br>from -50 to +80°C <sub>td</sub><br>from -20 to   | See related datasheet<br>"Portable probes"   | 0.1 %RH<br>0.1 g/Kg<br>0.1 °C <sub>td</sub><br>0.1 °C |
| <b>HIGH TEMPERATURE HYGROMETRY probe</b>  |  |  |   |  |   |
|  | H.T<br>Relative humidity<br>Absolute humidity / enthalpy<br>Dew point<br>Ambient temperature | %RH<br>g/Kg / Kj/Kg<br>°C <sub>td</sub> , °F <sub>td</sub><br>°C, °F   | from 3 to 98 %RH<br>According to temperature and<br>hygrometry measuring ranges<br>from -50 to +80°C <sub>td</sub><br>from -40 to +180°C                                    | See related datasheet<br>"Portable probes"   | 0.1 %RH<br>0.1 g/Kg<br>0.1 °C <sub>td</sub><br>0.1 °C |
| <b>TACHOMETRY probe (See datasheet "Portable probes")</b>                           |  |  |   |  |   |
| <b>MULTIFUNCTION probes (See datasheet "Portable probes")</b>                       |  |  |   |  |   |
| <b>Pt100 Smart-Plus probes (See related datasheet)</b>                              |  |  |   |  |   |

\*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 required compensation.  
\*\*The accuracy is expressed either by a deviation in °C, or by a percentage of the value concerned. Only the bigger value is considered.

## Supplied with ...

● Supplied with ○ Option

| DESCRIPTION                                      | AMI 300 | AMI 300 CLA | AMI 300 STD | AMI 300 PRO | AMI 300 CRF | AMI 300 SRF | AMI 300 PRF |
|--|---------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pressure module from 0 to ±500 Pa                | ○       | ○           | ○           | ●           | ○           | ○           | ●           |
| Pressure module from 0 to ±2500 Pa               | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| Pressure module from 0 to ±10000 Pa              | ○       | ○           | ●           | ○           | ○           | ●           | ○           |
| Pressure module from 0 to ±500 mBar              | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| Pressure module from 0 to ±2000 mBar             | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| Current / voltage module                         | ●       | ●           | ●           | ●           | ●           | ●           | ●           |
| Thermocouple module                              | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| Climatic conditions module                       | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| 2x1 m silicone tube Ø 4 x 7 mm                   | ○       | ○           | ●           | ●           | ○           | ●           | ●           |
| Stainless steel tips Ø 6 x 100 mm                | ○       | ○           | ●           | ●           | ○           | ●           | ●           |
| Pitot tube Ø 6mm, lg. 300 mm                     | ○       | ○           | ●           | ○           | ○           | ●           | ○           |
| Pitot tube Ø 6mm, lg. 300 mm T                   | ○       | ○           | ○           | ●           | ○           | ○           | ●           |
| Pitot tube Ø 6mm, lg. 300 mm S                   | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| Optical tachometry probe                         | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| ETC adaptor                                      | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| Reflective tape                                  | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| Standard hotwire                                 | ○       | ●           | ●           | ○           | ●           | ●           | ○           |
| Straight extension for hotwire                   | ○       | ●           | ○           | ○           | ●           | ●           | ●           |
| Telescopic gooseneck-shaped hotwire              | ○       | ○           | ○           | ●           | ○           | ○           | ●           |
| SMART-Plus Ø 14 mm vane probe                    | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| Telescopic SMART-Plus Ø 14 mm vane probe         | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| SMART-Plus Ø 70 mm vane probe                    | ○       | ●           | ○           | ○           | ○           | ○           | ○           |
| Wireless Ø 70 mm vane probe                      | ○       | ○           | ○           | ○           | ●           | ○           | ○           |
| SMART-Plus Ø 100 mm vane probe                   | ○       | ○           | ●           | ●           | ○           | ○           | ○           |
| Wireless Ø 100 mm vane probe                     | ○       | ○           | ○           | ○           | ○           | ●           | ●           |
| SMART-Plus standard hygrometry probe             | ○       | ●           | ●           | ○           | ○           | ○           | ○           |
| Wireless standard hygrometry probe               | ○       | ○           | ○           | ○           | ●           | ●           | ○           |
| SMART-Plus high temperature hygrometry probe     | ○       | ○           | ○           | ●           | ○           | ○           | ○           |
| Wireless high temperature hygrometry probe       | ○       | ○           | ○           | ○           | ○           | ○           | ●           |
| SMART-Plus Pt100 temperature probe               | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| Wireless Pt100 temperature probe                 | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| Thermocouple K, J and T probe                    | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| CO <sub>2</sub> / temperature probe              | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| CO / temperature probe                           | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| CO <sub>2</sub> / temperature / Hygrometry probe | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| Air velocity/ Temperature / Hygrometry probe     | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| 8 rechargeable batteries with charger            | ○       | ○           | ○           | ○           | ○           | ○           | ○           |
| Calibration certificate                          | ●       | ●           | ●           | ●           | ●           | ●           | ●           |
| Transport case                                   | ●       | ●           | ●           | ●           | ●           | ●           | ●           |

## Accessories (See related datasheet)

| Datalogger-10   | K 25 - 35 - 75 - 120 - 150               | BNF   | CE 300   | GST  | ADS                              |
|---|--|---|--|--|----------------------------------|
| Datalogger-10 PC software for data recording and processing. Wired (LPCF) or wireless (LPCR) interface. | Airflow cones (See related datasheet)    | Hotwire cleaning spray  | Hands-free protective cover                        | Silicone heat conductive grease for temperature probes             | Adaptor for power supply 230 Vac |
| KPIJ 20 - 50 - 100 - 200 - 600  | See related datasheet                    | BN (See datasheet)  | RD 300   | RTS  |                                  |
| Ammeter clamp with PVC cable lg. 2m and jack connector.   | Debimo airflow blades of different sizes | Black ball Ø 150mm with junction for temperature probe Ø 4,5mm. Further dimensions available. | Straight extension for hotwire Ø 10 mm. lg. 300 mm | Telescopic extension, length 1 m, bent at 90° for measuring probe. |                                  |

## Warranty period

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

[www.kimo.fr](http://www.kimo.fr)

EXPORT DEPARTMENT

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(سهامی خاص)

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