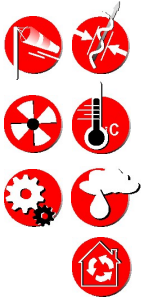




Multifunction AMI 300

CE



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Technical features

Sensing elements

Pressure module Piezoresistive sensor

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

Hotwire: Thermistance with a negative temperature coefficient

Ambient temperature : Pt100 1/3 Din.

\varnothing 70 and 100 mm vane probes : Hall effect sensor

Ambient temperature : Pt100 class A.

\varnothing 14 mm vane probe: Proximity sensor

Ambient temperature : Pt100 class A.

Hygrometry/Temp. probes: capacitive sensor Pt100 1/3 DIN

Thermocouple probes : type K, J and T class 1

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

Climatic conditions module:

- Hygrometry : capacitive sensor
- Temperature : semiconductor sensor
- Air pressure : piezoresistive sensor

Air quality probes

- CO₂ : NDIR sensor
- CO : electrochemical sensor
- Temperature : Pt100 class A
- Hygrometry : capacitive sensor

Climatic conditions module:

- Hygrometry : capacitive sensor
- Temperature : semiconductor sensor
- Air pressure : piezoresistive sensor

Multifunction probe

- Air velocity : Thermistance with a negative temperature coefficient
- Hygrometry/Temp.: Capacitive sensor, Pt100 1/3 DIN

Tachometry sensor

- 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

Modules connections.....Thermocouple

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

Pressure

- 2 pressure connectors \varnothing 6,2 mm made of nickel brass
- 2 threaded pressure connectors \varnothing 4,6 mm made of nickel brass (for 500 and 200 mbar)
- + 1 temperature thermocouple input for miniature connector

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.....ABS shock-proof, IP54

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

Conformity.....electromagnetic compatibility (as per NF EN 61326-1)

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, and others coming soon. Please contact us

Specifications

	Measuring units	Measuring range	Accuracy*	Resolutions
PRESSURE				
	Pa, mmH ₂ O, In WG, mbar, hPa, mmHg, DaPa Kpa, bar, PSI	From 0 to ± 500 Pa From 0 to $\pm 2,500$ Pa From 0 to $\pm 10,000$ Pa From 0 to ± 500 mbar From 0 to ± 2000 mbar	± 100 Pa : $\pm 0.2\%$ of reading ± 0.8 Pa, beyond $\pm 0.2\%$ of reading ± 1.5 Pa, $\pm 0.2\%$ of reading ± 2 Pa $\pm 0.2\%$ of reading ± 10 Pa $\pm 0.3\%$ of reading ± 0.5 mbar $\pm 0.3\%$ of reading ± 2 mbar	0.1 Pa from -100 to +100 Pa, 1 Pa beyond 1Pa 1Pa 0,1mbar 1mbar
CURRENT / VOLTAGE				
	V, mA	From 0 to 2,5 V From 0 to 10 V From 0 to 4/20 mA	± 2 mV ± 10 mV ± 0.01 mA	0.001 V 0.01 V 0.01 mA
THERMOCOUPLE				
	°C, °F	K: From -200 to +1300°C J: From -100 to +750°C T: From -200 to +400°C	$\pm 1,1^\circ\text{C}$ or $\pm 0.4\%$ Reading value** $\pm 0.8^\circ\text{C}$ or $\pm 0.4\%$ Reading value** $\pm 0.5^\circ\text{C}$ or $\pm 0.4\%$ Reading value**	0.1 °C 0.1 °C 0.1 °C
CLIMATIC CONDITIONS				
	Hygro. Temp.	%RH °C, °F hPa	From 5 to 95%RH From -20 to +80°C From 800 to 11,00 hPa	See datasheet interchangeable measurement modules 0.1 %RH 0.1 °C 1 hPa

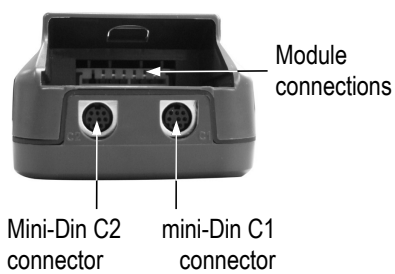
		Measuring units	Measuring ranges	Accuracy*	Resolutions
HOTWIRE - Standard and telescopic -					
	Air velocity	m/s, fpm, Km/h	From 0.15 to 3 m/s From 3.1 to 30 m/s	±3% of reading ±0.03 m/s ±3% of reading ±0.1 m/s	0.01 m/s 0.1 m/s
	Temperature	°C, °F	From -20 to +80°C	±0.3% of reading ±0.3°C	0.1 °C
	Airflow	m³/h, cfm, l/s, m³/s	From 0 to 99,999 m³/h	±3% of reading ±0.03*area (cm²)	1 m³/h
Ø 100 mm VANE PROBE					
	Air velocity	m/s, fpm, Km/h	From 0.25 to 3 m/s From 3.1 to 35 m/s	±3% of reading ±0.1m/s ±1% of reading ±0.3m/s	0.01 m/s 0.1 m/s
	Temperature	°C, °F	From -20 to +80°C	±0.4% of reading ±0.3°C	0.1 °C
	Airflow	m³/h, cfm, l/s, m³/s	From 0 to 99999 m³/h	±3% of reading ±0.03*area (cm²)	1 m³/h
Ø 70 mm VANE PROBE					
	Air velocity	m/s, fpm, Km/h	From 0.3 to 3 m/s From 3.1 to 35 m/s	±3% of reading ±0.1m/s ±1% of reading ±0.3m/s	0.1 m/s
	Temperature	°C, °F	From -20 to +80°C	±0.4% of reading ±0.3°C	0.1 °C
	Airflow	m³/h, cfm, l/s, m³/s	From 0 to 99,999 m³/h	±3% of reading ±0.03*area (cm²)	1 m³/h
Ø 14 mm VANE PROBE					
	Air velocity	m/s, fpm, Km/h	From 0.8 to 3 m/s From 3.1 to 40 m/s	±3% of reading ±0.1m/s ±1% of reading ±0.3m/s	0.1 m/s
	Airflow	m³/h, cfm, l/s, m³/s	From 0 to 99,999 m³/h	±3% of reading ±0.03*area (cm²)	1 m³/h
	Temperature	°C, °F	From -20 to +80°C	±0.4% of reading ±0.3°C	0.1 °C
PITOT TUBE					
	Air velocity	m/s, fpm, Km/h, mph	From 2 to 5 m/s From 5,1 to 100 m/s	±0.3 m/s ±0.5% of reading ±0.2m/s	0.1 m/s
	Airflow	m³/h, cfm, l/s, m³/s	From 0 to 99,999m³/h	±0.2% of reading ±1% PE	1 m³/h
DEBIMO BLADES					
	Air velocity	m/s, fpm, Km/h, mph	From 4 to 20 m/s From 21 to 100 m/s	±0.3 m/s ±1% of reading ±0.1m/s	0.1 m/s 0.1 m/s
	Airflow	m³/h, cfm, l/s, m³/s	From 0 to 99,999m³/h	±0.2% of reading ±1% PE	1 m³/h
AIR QUALITY PROBES: CO / CO₂ / Temperature / Hygrometry					
	Temperature	°C, °F	From -20 to +80°C	See related datasheet	0.1 °C
	CO ₂	ppm	From 0 to 5,000 ppm	« Portable probes »	1 ppm
	CO	ppm	From 0 to 1,000 ppm		1 ppm
	Relative humidity	%RH	From 5 to 95%RH		0.1 %RH
HYGROMETRY PROBES					
STD 	Relative humidity	%RH	From 3 to 98 %RH	See related datasheet	0.1 %RH
	Absolute humidity / enthalpy	g/Kg / Kj/Kg	According to hygrometry and temperature measuring ranges	« Portable probes »	0.1 g/Kg
	Dew point	°C _{td} , °F _{td}	From -50 to +80°C _{td}	±0.6% of reading ±0.5°C _{td}	0.1 °C _{td}
	Ambient temperature	°C, °F	From -20 to +80°C	±0.3% of reading ±0.25°C	0.1 °C
HYGROMETRY PROBES					
H.T 	Relative humidity	%RH	From 3 to 98 %RH	See related datasheet	0.1 %RH
	Absolute humidity / enthalpy	g/Kg / Kj/Kg	According to hygrometry and temperature measuring ranges	« Portable probes »	0.1 g/Kg
	Dew point	°C _{td} , °F _{td}	From -50 to +80°C _{td}	±0.6% of reading ±0.5°C _{td}	0.1 °C _{td}
	Ambient temperature	°C, °F	From -40 to +180°C	±0.3% of reading ±0.25°C	0.1 °C
TACHOMETRY Probe (see datasheet «portable probes»)					
MULTIFUNCTION Probes (see datasheet «portable probes»)					
Pt100 Smart-Plus Probes (see related datasheet)					0.01 °C

*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.

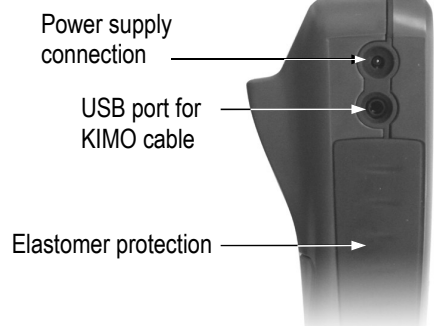
** The accuracy is expressed either by a deviation in °C or by a percentage of the value concerned. Only the bigger value is considered.

Description

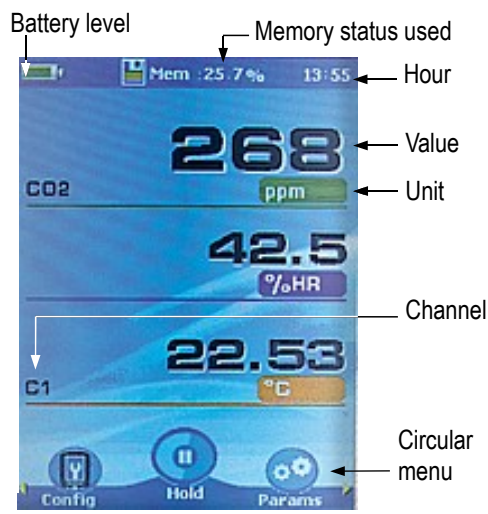
Top view



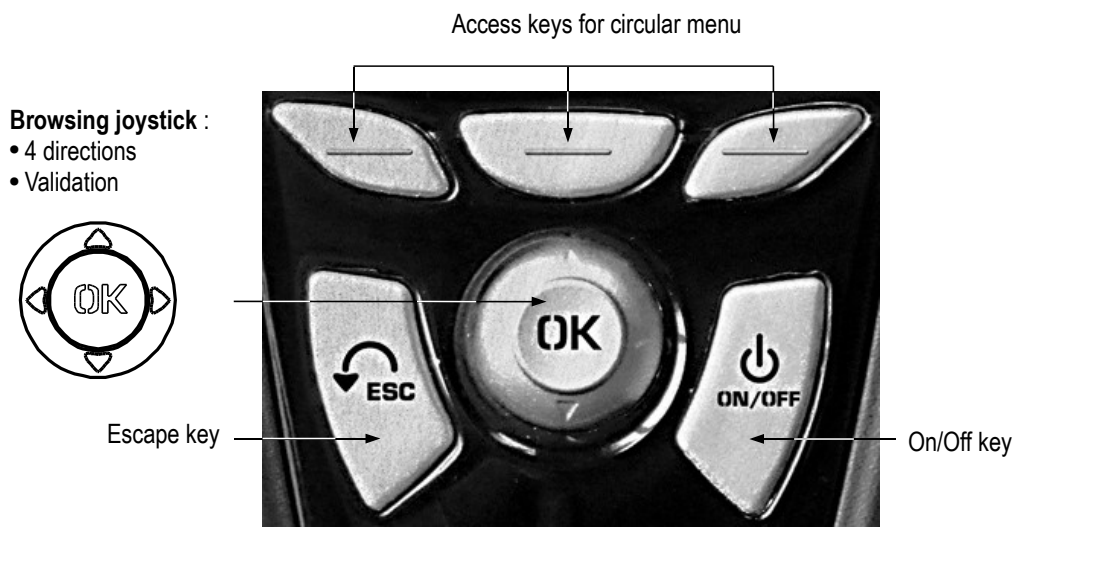
Side view



Graphic display



Keypad



Connections



Interchangeable measurement modules

Interchangeable modules with Smart-plus system are automatically recognized when connected to the instrument.

1. Current / voltage module



It allows current or voltage measurements on **VI A1** or **VA/2** channels with current/voltage input cables or ammeter clamps.

2. Pressure module



It allows differential pressure, air velocity or airflow measurements with **Pitot tube** or **Debimo** on two pressure inputs (- and +) and thermocouple temperature measurement on **Tc1** channel with wire thermocouple probes equipped with a miniature male connector.

3. Thermocouple module



It allows thermocouple temperature measurement on **Tc1**, **Tc2**, **Tc3** and **Tc4** channels with type **K**, **J** or **T** with wire thermocouple probes equipped with a miniature male connector.

4. Climatic conditions module



It allows hygrometry measurement on **Hygro** channel, ambient temperature measurement on **Ptx** channel and air pressure on **PATM** channel.



Wire probes with Smart plus system

Wire probes with Smart-plus system are automatically recognized when connected to the instrument.



mini-Din **C2** connector

Mini-Din **C1** connector



Probes are connected on min-DIN connectors **C1** and **/** or **C2**



Secured Mini-Din Connector



Non-exhaustive list of probes



Wireless probe/instrument communication

Wireless communication between probe and instrument with automatic recognition after power-up.



Hygrometry probes or Pt100 probes are displayed on **hygro**, **Tr1** or **Tr2** channels followed by wireless communication



Non-exhaustive list of probes



Wireless probes shall be located near the instrument for initial recognition. Connection between AMI300 and wireless probes must be established. See submenu "Wireless probes" p 9.

Power-up

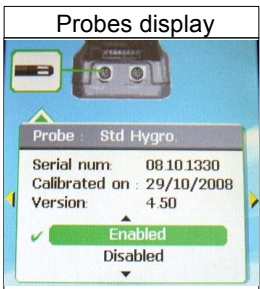


OK

Enter key code with directional pad.
(if the locking is activated)

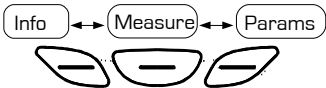
◀ ▶ and ▲ ▼

Probe connection



Select a connection with right and left keys ◀ ▶

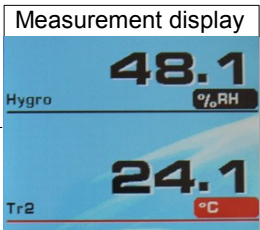
Connections can be activated or deactivated with ▲ or ▼



Select a sub menu with access keys

Measurement

Return to previous screen

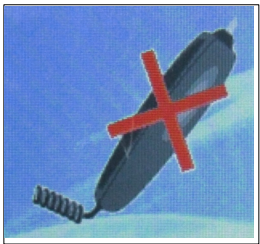


Sub menus appears according to probes type.

Select sub menu with arrows keys ◀ ▶ or access keys

OK

Communication interrupted



Check probes connection

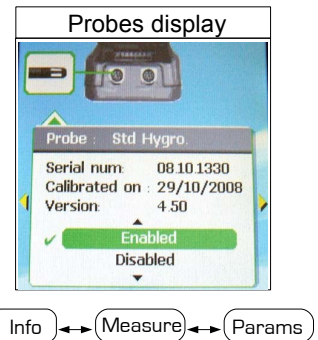
Probe menu

1. Using wire probes and modules

Wire probes and modules with Smart-plus system are automatically recognized from first connection. The "Probe" menu only appears when probes or module are connected. This menu allows to view probe information plugged to **C2, Module, C1** or **wireless connections**. (See « Connections » p 7 for more information about connections).

Available information are :

- Sensor type, Serial number, Date of last calibration or adjustment, Probes Status (enabled ou disabled). On enabled mode, the probe is connected, the measurement is carried out and the value is displayed. On disabled mode, the probe is connected, the measurement is not carried out and the value is not displayed.



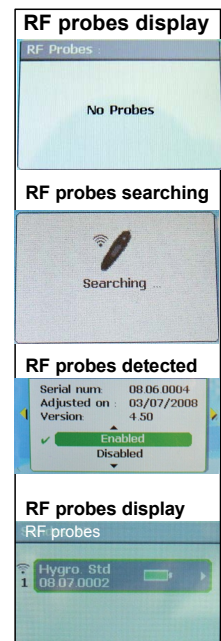
2. Using wireless communication

A- Add a wireless probe

- Go to probe menu by pressing "Probe" access key.
- With arrow keys ◀ and ▶, go to "RF probes" display.
- Select **New** with access key.
- Power up the probe and press multifunction button until LED blinks. Once the probe is recognized, information appears. Left button ◀ allows to return to the RF probes display and to access all RF probes already recognized by the instrument. With access keys, it is possible to delete (Del) a RF probe.

B- Select a wireless probe already created.

- Power up the RF probe (short press on Multifunction button).
- Go to "Probe" menu.
- With arrows keys ◀ and ▶, go to "RF probes" Display. All the RF probes already recognized appear.
- Select the suitable RF probe with ▲ or ▼.
- Go to probe informations using arrow key ▶.
- Enable the RF probe with arrows keys ▲ and ▼ and confirm with OK.



Functions

Temperature

The following functions are enabled only if at least one probe is connected.

- **Hold** (Hold - Min/Max)
- **Config** (Configuration) - see Air velocity
- **Δ T** (Delta T)
- **Alarms** - see Air quality
- **Rec** (Recording) - see Air velocity
- **Params** (Parameters) - see Air velocity

Hold / Min-Max

Press 1x in order to select **HOLD** function : measurement holding on display.
 Press 2x in order to select **Min-Max** function : display of minimum and maximum values.
 Press 3x : back to the continuous measurement.

Delta T

When two PT100 probes or 2 thermocouple temperature probes are connected, **AMI300** can calculate Delta temperature value : the temperature difference between **C2** and **C1**, or **T2** and **T1**, or **T4** and **T3**.
 Select **Delta T** in order to view the temperature difference.
 If you select **Delta T** again, Delta T function is disabled.

Hygrometry

The following functions are enabled only if at least one probe is connected:

- **Hold** (Hold – Min/Max) – see Temperature
- **Config** (Configuration) - see Air velocity
- **Δ T** (Delta T)
- **Calc.** (Calculation)
- **Alarms** - see Air quality
- **Rec** (Recording) - see Air velocity
- **Params** (Parameters) - see Air velocity

Calculations

Press the access key . Press ► in order to enter in the submenu and choose calculation type (none, psychrometer or WGBT) by means of arrows keys ▲ and ▼ .

Confirm with **OK**. Select **Esc** to quit this menu.

• Psychrometer

Wet Temperature (Tw) is the temperature at which water evaporated into the air brings the air to saturation at the same temperature. It is expressed in Celsius degree .

Absolute humidity (pV) is the ratio between the mass of water vapor present to the mass of dry gas. It is expressed in grams of water vapor per kiRecrams of dry gas.

Dew-point temperature (Td): is the temperature to which the air must be cooled, at constant barometric pressure for water vapor to condense into water. It is expressed in Celsius degree.

Contact dew-point temperature (Td) is the dew point temperature measured by a PT100 contact probe. It is expressed in Celsius degree.

Specific enthalpy (i) is the total heat contained in 1 kg of wet air. It is expressed in kJ/kg.

• WGBT index (Wet bulb globe temperature).

For hygrometry probe coupled with black ball thermometer.

If WGBT index is selected, press ▼ then **OK** or ► and a list appears. Select **Inside** or **Outside** with arrow ▲ and ▼ . Confirm with **OK**.

The **WGBT**, described as per **ISO 7243**, allows an evaluation of working climatic conditions.

Outdoors, the following formula is used:

$$WBGT_{outside} = 0.7 Thn + 0.2 Tg + 0.1 Ta$$

Indoors, It is calculated from the following formula :

$$WBGT_{inside} = 0.7 Thn + 0.3 Tg$$

where:

- **Thn** is the natural wet temperature,
- **Tg** is the temperature measured with a black ball thermometer
- and **Ta** is the ambient temperature.

Air quality

The following functions are enabled only if at least one probe is connected:

- **Hold** (Hold – Min/Max) – see Temperature
- **Config** (Configuration) - see Air velocity
- **Δ T** (Delta T) – see Temperature
- **Calc.** (Calculation) – see hygrometry
- **Alarms**
- **Rec** (Recording) - see Air velocity
- **Params** (Parameters) - see Air velocity

Alarms

Select respectively **ON** or **OFF** with ▲ and ▼ in order to enable or disable the alarm. Choose your setpoint : CO Limit 1 (first CO setpoint), CO Limit 2 (second CO setpoint), low temperature setpoint and high temperature setpoint. Confirm with **OK** or ►.

Select thresholds with **OK** or ► to enter CO and temperature setpoints. Select + or – signs with ▲ and ▼ then pass on the first digit with ►. Low and high **thresholds** entered, confirm with **OK**.

Pressure

Access **Pressure** function by means of **Pressure** key. With **Pressure** function, you can access to following sub-functions

- **Hold** – see Temperature
- **Config.** (Configuration) - see Air velocity
- **Params** (Parameters) - see Air velocity
- **Avg.** (Average) - see Air velocity
- **Rec** (Recording) - see Air velocity

AutoZ

This sub-function allows to compensate for any long-term drifts of the sensing element by a manual adjustment of the zero.

For the ±500 Pa measurement module, self-calibration is performed by the solenoid valve. Once pressing **Autoz** key, the zero is readjusted.

This function can also be automatically performed by using the solenoid valve function.

For others measurement modules, self-calibration is performed by disconnecting the two pressure inlets of the sensor, then by pressing **Autoz** key.

Airflow

Access **Airflow** function by means of **Air flow** key. With **Airflow** function, you can access to following sub-functions

- **Hold** – see Temperature
- **Area**
- **Config.** (Configuration) - see Air velocity
- **Params** (Parameters) - see Air velocity
- **Avg.** (Average) - see Air velocity
- **Rec** (Recording) - see Air velocity

Area

• Type

To select vent **Type** press **OK** or ►.

Select **Lx W** or **Diam** or **K factor** with arrow buttons ▲ and ▼. Confirm with **OK**. If K factor is selected, you must enter value. You can choose a K factor already registered by selecting with ▲ and ▼. Confirm with **OK**. This factor can be modified by selecting with ▲ and ▼, then confirm with **OK** or ►. Select **Modify** with **OK** or ►. Enter factor by means of arrow keys ▲ and ▼. Confirm with **OK** or ►.

• Sizes

Press ► or **OK** to enter into **sizes** sub function. You can choose an air vent already registered by selecting it with arrow keys ▲ and ▼. Confirm with **OK** or ►. This air vent can be modified by selecting it with arrows keys ▲ and ▼, then Confirm with **OK** or ►. Select **Modify** with **OK** or ►. Enter sizes by means of arrow keys ▲ and ▼. Confirm with **OK** or ►.

• K2 factor

Press ► or **OK** to enter into the **K2 factor** sub function. Select respectively **ON** or **OFF** with ▲ and ▼ in order to enable or disable this function. Confirm with **OK**.

• Units

To select the unit press **OK** or ►.

Select **mm** or **in** with arrow buttons ▲ and ▼. Confirm with **OK**.

CO max

The CO mode is available when a CO/Temperature probe is connected.

You can access this function selecting COmax with the access key **CO max**

The CO is measured on an adjustable period, the maximum value measured in this period is called **CO max**. When CO peak is selected, the period is displayed (30 seconds by default). Press **Valid.** to launch the measurement. When the countdown is finished, the CO max is displayed. To modify the period, press **Period** with the access key. Modify time with arrows keys **▲** and **▼**.

Confirm with **OK** or **▶**.

Air velocity

Access **Air velocity** function by means of **Air velocity** key. With **Air velocity** function, you can access to following sub-functions

- **Hold** – see Temperature
- **Config.** (Configuration)
- **Params** (Parameters)
- **Avg.** (Average)
- **Rec** (Recording)

Average

Press **▶** or **OK** to enter Average sub function. With **▲** and **▼**, you can select : **point/point average, auto, point/point automatic**. Confirm with **OK** or **▶**.

- **Point / point average**

This function allows to calculate the average value of various points that you can select.

Numbers of selected points and **parameter** for which calculation is carried out, are displayed

For adding a new measuring point to this calculation, press **OK** to confirm.

If you click on **average icon**, max. and min. values, standard deviation, average of each channel and e numbers of measuring points will be displayed. If you want to see all values, select **Visu.** and scroll with **▲** and **▼**.

- **Automatic average**

This function allows to calculate an average value that the device measured in an interval chosen time.

Timer is displayed. Select **Start** with access key for launching measurement.

If you click on **average icon**, max. and min. values, standard deviation, average of each channel and time chosen will be displayed.

- **Automatic point/point average**

This function allows to calculate the average value of various points, calculated themselves on a duration beforehand defined.

You must enter duration : click on the **Period** icon. Select **minutes** or **seconds** with arrow buttons **▲** and **▼**.

Scroll digits with **▲** and **▼**. Confirm with **OK**. The numbers of points is displayed. Press **OK** for launching measurement.

If you click on **average icon**, max. and min. values, standard deviation, average of each channel and numbers of measuring points will be displayed.

You can view each measuring points if you click on **Visu.**

Configuration



If you use thermocouple probes, you must enter type into the Configuration sub-function.

Configuration sub-function allows to:

- **Select thermocouple type**

Click on **OK** or **▶** to enter into sub function : a list of thermocouple available (K, J or T type) appears .

Select type with **▲** and **▼**. Confirm with **OK**.

- **Select display**

Click on **OK** or **▶** to enter into sub function. Select channel or display type required (Digital, Bargraphs or Curves) with **▲** and **▼**. Confirm with **OK**.

Select the configuration of display required.

- **Select units**

Click on **OK** or ► to enter into sub function : a list of units available appears. Select unit required with ▲ and ▼. Confirm with **OK**.
Click on **Esc** to return to previous screen.

- **Select integration**

The coefficient of integration allows to smooth the measure, to avoid variations. Click on **OK** or ► to enter into sub function : a list of coefficient (From 0 to 9) appears. Select coefficient required with ▲ and ▼. Confirm with **OK**.
Coefficient 0: no integration, important fluctuation in the shown measure.

- **Select compensation**

It is possible to modify the value of the compensation in temperature. Indeed, the velocity and the airflow with Pitot's tube and with Debimo blades are calculated from a temperature of use in +20°C. It is thus necessary to enter the real temperature of use to obtain more precise results.
Click on **OK** or ► to enter into the sub function. Select + or – signs with ▲ and ▼ with ▲ and ▼ then pass on the first digit with ►. enter the first digit then move to the next one with ►. Confirm with **OK**.

- **Select airflow system (only available for Air velocity and Airflow functions)** Click on **OK** or ► to enter into sub function : a list of air flow systems available appears (Pitot tube L, S, Debimo or Other). Select your system with ▲ and ▼. Confirm with **OK**.

If **Other** is selected, you must enter a value. Click on **OK** or ► to enter into sub function. With ▲ and ▼, enter the first digit then move to the next one with ►. Confirm with **OK**.

- **Solenoid valve (available with the ± 500 Pa module)**

Click on **OK** or ► to enter into the sub function. Select respectively **ON** or **OFF** with ▲ and ▼ in order to enable or disable the solenoid valve function. Confirm with **OK** or ►. When the solenoid valve is enabled, it runs every minute.

Parameters

- **Language**

Click on **OK** or ► to enter and a list of languages available appears.
Select language with arrow keys ▲ and ▼ and Confirm with **OK**.

- **Date / Time**

Click on **OK** or ► to enter into sub function. Enter the day with ▲ and ▼ then move to the next digit with ►. Repeat this operation for the month, year, hour and minute. Confirm with **OK**.

- **Beep**

This sub-function allows to enable or disable the keypad beep. Click on **OK** or ► to enter into the sub function. Select respectively **ON** or **OFF** with ▲ and ▼ in order to enable or disable the beep.
Confirm with **OK**.

- **Extinction**

This sub-function allows to enable the automatic shut-off and to select the delay in minute. Click on **OK** or ► to enter into the sub function. Select, with ▲ and ▼, **OFF** in order to disable the automatic shut-off or enter the delay (from 15 to 120 minutes).
Confirm with **OK**.

- **RF Logging**

This sub-function allows to enable or disable the **RF Recording**. Click on **OK** or ► to enter into the sub function. Select respectively **ON** or **OFF** with ▲ and ▼ in order to enable or disable this function.
Confirm with **OK**.

- **Screen Saving**

This sub-function allows to enable or disable the screen saving. Click on **OK** or ► to enter and a list appears. Enter the delay before the screen saving activation with ▲ and ▼
Confirm with **OK**.

- **Backlit**

This sub-function allows to modify the backlit. Click on **OK** or ► to enter. Select your backlit level (from 0 to 9 or **AUTO**) with ▲ and ▼.
Confirm with **OK**.

If you select AUTO, the AMI 300 adjusts automatically the backlit according to the room brightness.

• Key locking

This sub-function allows to enable or disable the **key lock**. Click on **OK** or **▶** to enter into sub function. Select respectively **ON** or **OFF** with **▲** and **▼** in order to enable or disable this function.

Confirm with **OK**.

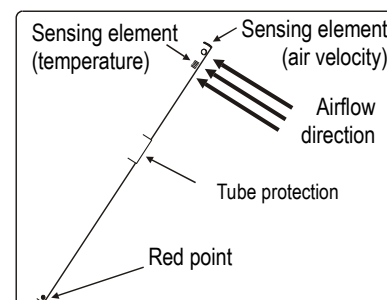
If the locking is enabled, the code menu appears

• Code

This sub-function allows to enter the **security code**. Click on **OK** or **▶** and the code appears. Enter the first digit of the code with **▲** and **▼** then move to the next one with **▶**. Confirm with **OK**.

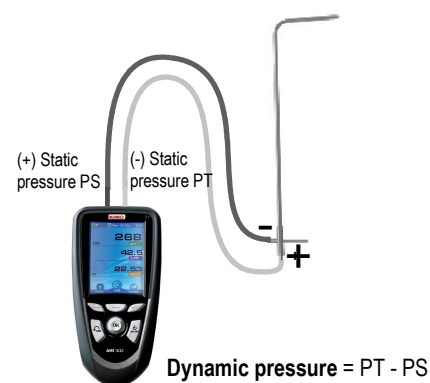
Using a hotwire

1. Connect the hotwire probe to AMI 300. Probe menu appears.
2. Slide down protection tube.
3. The probe must be perpendicular to airflow : the red point at the bottom of the probe must face airflow.
4. Press **OK** to enter in the **Measure** menu, the air velocity and temperature values are displayed.



Using Pitot tube

1. Connect the pitot tube to AMI 300.
2. The probe must be placed at the center of the duct and parallel to the air flow.
3. Press **OK** to enter in the **Measure** menu, the air velocity and temperature values are displayed on the screen.



Recording

The Recording menu allows a measurement dataset. You can choose between a planned or a continuous dataset.

1. Create or launch a continuous dataset

A continuous dataset can be carried out using AMI 300 and is composed of several dated measuring points. The operator can choose an automatic or a manual dataset, with an instant value or an average. This datasets can't be set using Datalogger-10 Software.

1.1 Manual dataset

A **manual dataset** is composed of measuring points selected by the operator.

- a. Click on **OK** or **▶** to enter into sub function.
- b. Select **Manual** with **▲** and **▼**. Confirm with **OK**.
- c. Select **Name** with **▲** and **▼**. Confirm with **OK** or **▶**. Enter dataset name with arrow keys **◀ ▶** and **▲ ▼**. Confirm with **OK**.
- d. For measurement launching, click on **OK** with the access key. The number of points selected and the parameter are displayed.
- e. To save your dataset click on **Save** with the access key.

1.2 Automatic dataset

An **automatic dataset** is composed of measuring points with interval of time.

- a. Click on **OK** or **▶** to enter sub function.
- b. Select **Auto.** with **▲** and **▼**. Confirm with **OK**.
- c. Select **Name** with **▲** and **▼**. Confirm with **OK** or **▶**. Enter dataset name with the arrow keys **◀ ▶** and **▲ ▼**. Confirm with **OK**.
- d. Enter dataset time and interval of time between 2 measurement by selecting **Period** with access key. Select **Duration** or **Interval** with **▲** and **▼**. Confirm with **OK**. Enter minutes and seconds with arrow keys **▲** and **▼** (from 1 minutes to 24 hours for the duration and from 5 seconds to 10 minutes for the interval). Confirm with **OK**.
- e. Select **Start** for dataset launching.

2. Launch a planned dataset

A planned dataset is composed of several locations. For each location, the operator can enter a theoretical value and a tolerance for the parameter to be controlled. Planification must be made via the software.

- a. Click on **OK** or ► to enter into sub function.
- b. Select **Planned** with ▲ and ▼. Confirm with **OK**.
- c. Choose dataset name with ▲ and ▼. Confirm with **OK**.
- d. Select the location with ▲ and ▼. Confirm with **OK**.

3. Delete all datasets

Select **Delete** with ▲ and ▼. Confirm with **OK**.

Downloading data

see DataLogger-10 user manual chapter III – Read device page 6.

Info menu

This menu allows to view the serial number of instrument and firmware version.

Battery

When battery indicator flashes it is recommended to change the batteries:

1. Remove the front part at the back of the instrument.
2. Remove batteries
3. Insert new batteries (AA-LR6 1,5V) in accordance with proper polarity drew inside the housing.
4. Replace the front.




Maintenance

KIMO performs calibration, adjustment and maintenance of all your instruments to guarantee a constant level of quality of your measurements. In regards of Quality insurance norms, we recommend that the instruments are checked once a year.

Warranty

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

 Once returned to KIMO, required waste collection will be assured in the respect of the environment in accordance to 2002/96/CE guidelines relating to WEEE.

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