



Air velocity Pressure Humidity Air flow Temperature

DIRECTIONS FOR USE

CLASS 300

New

SMART MULTI-FUNCTIONS DEVICES AMI 301 and 301 PRO

CE



Pressure sensor
from 0 to 1000 Pa





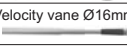

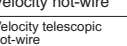
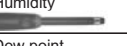
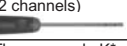


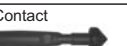
SUMMARY

• TECHNICAL SPECIFICATIONS	1 - 2
• INTRODUCTION :	
- <i>Description</i>	2
- <i>Keyboard</i>	3
- <i>Connections</i>	3
• INTRODUCTION OF THE MENU	4
• PRESSURE MENU	4 - 5
• TEMPERATURE MENU	5
• HOT-WIRE ANEMOMETRY MENU	5 - 6
• VANE ANEMOMETRY MENU	6
• HYGROMETRY MENU	7
• TACHOMETER MENU	7
• SUB-MENUS :	
- <i>Units</i>	7
- <i>Delta T</i>	8
- <i>Automatic average</i>	8
- <i>Point by point average</i>	8
- <i>Automatic point by point average</i>	8
- <i>Air flow using Pitot tube</i>	8 - 9
- <i>Air flow using Debimo</i>	9
- <i>Air flow with K Factor</i>	9
- <i>Air flow</i>	9
- <i>Velocity with Pitot</i>	10
- <i>Velocity with Debimo</i>	10
- <i>Temperature equalization</i>	10

• SETTING :	
- <i>Date and hour</i>	10
- <i>Retro-lighting</i>	10
- <i>Contrast</i>	10
- <i>Keys beep</i>	10
- <i>Languages</i>	11
- <i>Automatic stop</i>	11
- <i>Solenoid valve</i>	11
• DATA RECORDING, PRINTING AND DELETING	
- <i>New</i>	11
- <i>Print</i>	12
- <i>Delete</i>	12
• GUARANTEE	12
• CALIBRATION	12

TECHNICAL SPECIFICATIONS

The AMI 301 is a multi-function instrument, compatible with all SMART PRO probes, and with all thermocouple K temperature probes. The SMART PRO probes are supplied with calibration or adjusting certificate (last calibration date display when connected). They are automatically recognized when connected, and are fully interchangeable.

		Units of measure	Measuring ranges	Accuracies**	Resolutions
MICROMANOMETER	Pressure	mmH ₂ O, Pa, Wg	0 to ±1000Pa	±0,5% of reading ±1Pa	1Pa
	Velocity with Pitot	m/s, fpm	2 to 40m/s	±3% of reading ±0,1m/s	0,1m/s
	Velocity Debimo	m/s, fpm	2 to 40m/s	±3% of reading ±0,1m/s	0,1m/s
	Airflow with Pitot	m ³ /h, cfm, l/s, m ³ /s	0 to 65000m ³ /h	±3% of reading ±10m ³ /h	1m ³ /h
	Airflow Debimo	m ³ /h, cfm, l/s, m ³ /s	0 to 65000m ³ /h	±3% of reading ±10m ³ /h	1m ³ /h
THERMO ANEMO WITH VANE	Velocity vane Ø100mm 	m/s, fpm	0,20 to 3m/s 3,1 to 35m/s	±2% of reading ±0,06m/s ±2% of reading ±0,2m/s	0,01m/s 0,1m/s
	Velocity vane Ø70mm 	m/s, fpm	0,3 to 35m/s	±2% of reading ±0,1m/s	0,1m/s
	Velocity vane Ø16mm 	m/s, fpm	0,6 to 40m/s	±2% of reading ±0,1m/s	0,1m/s
	Ambient temperature (except vane ø 16mm)	°C, °F, K	-20 to +80°C	±2% of reading ±0,1°C	0,1°C
	Airflow	m ³ /h, cfm, l/s, m ³ /s	0 to 65000m ³ /h	±3% of reading ±10m ³ /h	1m ³ /h
THERMO ANEMO WITH HOT-WIRE	Velocity hot-wire 	m/s, fpm	0 to 3m/s 3,1 to 30m/s	±3% of reading ±0,03m/s ±3% of reading ±0,1m/s	0,01m/s 0,1m/s
	Velocity telescopic hot-wire 	m/s, fpm	0 to 3m/s 3,1 to 30m/s	±3% of reading ±0,03m/s ±3% of reading ±0,1m/s	0,01m/s 0,1m/s
	Ambient temperature	°C, °F, K	-20 to +80°C	±2% of reading ±0,1°C	0,1°C
	Airflow	m ³ /h, cfm, l/s, m ³ /s	0 to 65000m ³ /h	±3% of reading ±10m ³ /h	1m ³ /h
THERMO HYGRO	Humidity 	%RH, g/kg	3 to 98%RH	±1% of reading ±1,5%RH	0,1%RH
	Dew point	°C, °F, K	-20 to +80°C	±2% of reading ±0,1°C	0,1°C
	Ambient temperature	°C, °F, K	-20 to +80°C	±2% of reading ±0,1°C	0,1°C
THERMOMETER	Temperature PT 100 (2 channels) 	°C, °F, K	-100 to +400°C	±2% of reading ±0,1°C	0,1°C
	Thermocouple K* (2 channels) 	°C, °F, K	-200 to -40°C -39 to +999°C +1000 to +1300°C	±1% of reading ±1,2°C ±0,5% of reading ±0,8°C ±1% of reading ±1,2°C	0,1°C 0,1°C 1°C
TACHOM.	Optic 	tr/min, rpm, m/min,	60 to 5000tr/min	±0,5% of reading ±1tr/min	1tr/min
	Contact 	ft/min, ln/min	4 to 2500m/min 30 to 20000tr/min	±2% of reading ±1m/min	0,1m/min 1 tr/min

* The thermocouple K probes do not use the SMART PRO system.

** Performed in laboratories conditions, accuracies mentioned in this document will be guaranteed, subject to the same conditions or to a calibration balancing.

HYGROMETRY PROBE :

Maximum interval guaranteed* :

EMG (GAL) = ±2,70 %RH between 18 and 28°C (general field)

Range of measurement : 3 to 98%RH
Drift at short time : better than 1%RH / year
Response time : 10 seconds

$$* EMG = Et + Ehl + k (uet^2 + ur^2 + ud^2 + us^2)^{1/2}$$

As per the 2000/2001 hygrometer chart :

uet : uncertainty of calibration = ± 0,55%RH

ur : uncertainty of resolution = ± 0,003%RH

ud : uncertainty of manufacturing = ± 0,17%RH

us : repetition of comparison = 0,11%RH

Et : difference due to thermal deflection = ± 0,28%RH

Ehl : difference due to hysteresis and linearity = ± 1,25%RH

k : expansion factor = 2%RH



DISPLAY :
Graphic, with automatic backlighting. Size 66 x 33 mm.

HOUSING :
Shock-proof, made of ABS/PC, with Elastomer edges.

KEYPAD :
Made of Elastomer : 4 keys and one control knob.

CONNECTIONS :
Pressure connectors : Ø5,2 mm, made of nickelled brass
Connectors : mini-DIN secured plugs.
Thermocouple K connectors : compensated miniature plugs
Numeric connection output : USB.

COMMUNICATION MODE :
RS 232.

MEASURING ELEMENTS :
Pressure : piezo-resistive sensor (linearity : 0,25%FS, response time : 500 µs, stability (long term) : 0,25%FS)
Overpressure allowed : 250 mbar
Vane anemometer : Hall effect sensor
Hotwire anemometer : thermistance with negative temperature factor.
Hygrometry : capacitive element
Pt 100 temperature : Pt 100 class A
Thermocouple temperature : Thermocouple K class 1
Optical tachometry : optical detection (phototransistor)
Contact tachometry : ETC type adaptor fitting optical tachometry probe.

CONFORMITY :
Electromagnetical compatibility (norm NF EN 61326-1)

POWER SUPPLY :
4 Alcaline batteries 1,5 V LR6

WORKING ENVIRONMENT :
Neutral gas

WORKING TEMPERATURE :
From 0 to 50°C.

STORAGE TEMPERATURE :
From 0 to 50°C.

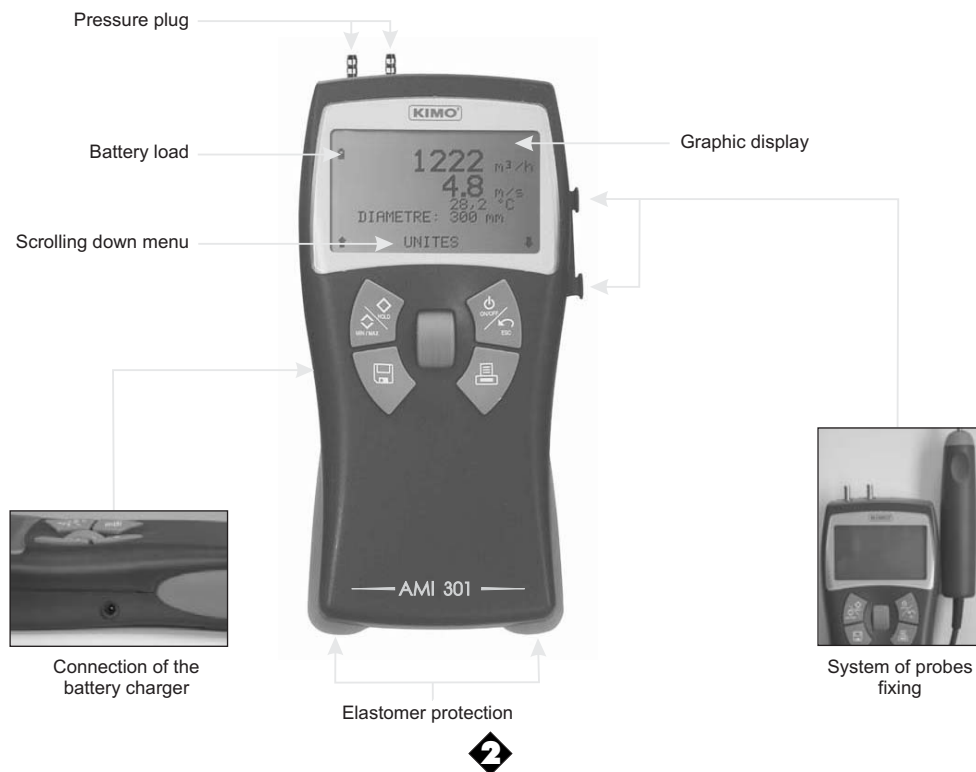
DIMENSIONS :
183 x 100 x 40 mm

WEIGHT :
450 g

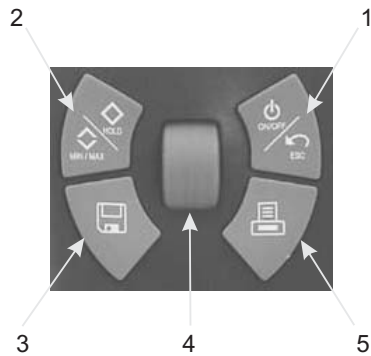
LANGUAGES AVAILABLE :
Two versions available (according to model) :
- French, English, German, Italian, Dutch.
- French, English, Spanish, Portuguese, Italian.

PRESENTATION

► Description :

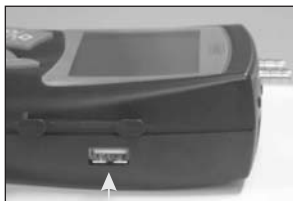
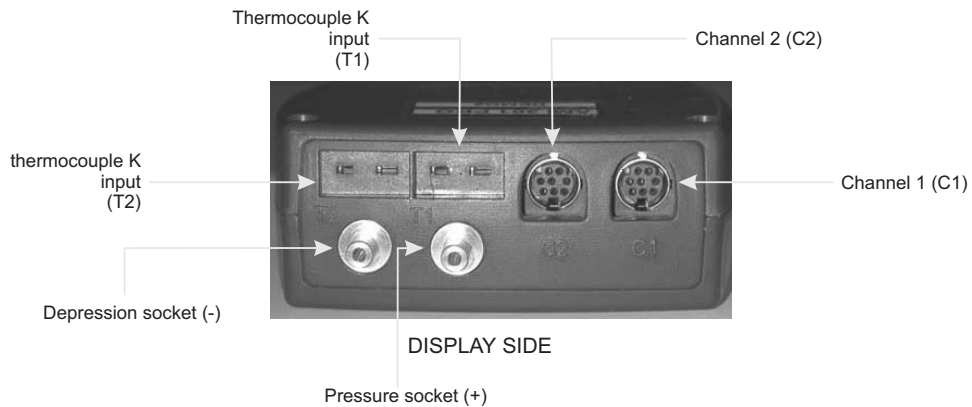


► **Keyboard :**



1. ON/OFF : Switch on / switch off the instrument.
ESC : Return to the previous page or on the last validated data.
2. Press 1 time : HOLD function, freeze the current measure.
Press 2 times : show the values minimum and maximum measured.
Press 3 times : return to the current menu measure.
3. Recording : allow to memorize data.
4. Press on the control knob to validate.
Browse the menu by scrolling down the knob.
5. Print out of data on a printer.

► **Connections :**



USB port for connection to the printer and joining to a PC

- **Channel 1 (C1)** : Connection of the hot-wire air velocity, vane air velocity, hygrometry, tachometry (optic or contact), and Pt 100 temperature probes.
- **Channel 2 (C2)** : Connection of a second PT100 probe.
- **T1 and T2** : Connection of thermocouple K probes
- **Pressure and depression sockets** : Connection of silicone tubes for measure of pressure or air velocity / air flow with Pitot tube.

INTRODUCTION OF THE MENU

To switch on the instrument, press the key "ON/OFF".

The screen shows the name of the device, its serial number, its calibration date, the date and hour (see photo below).



To access to the menu pressure, press on the knob ; To access to another menu, connect the corresponding probe. If this one uses the SMART PRO system, the screen shows the type of the connected probe, and its calibration or adjusting date. To access to the menu press on the knob. To return to the homepage, disconnect the probe or press on "ESC" for the menu pressure.

To switch off the instrument, press some seconds on the "ON/OFF" key.

PRESSURE MENU

When you access to the menu pressure, an autozero is automatically made, then you can read at the center of the screen the measured value. The last line of the screen shows the next menu (browsing the menu by scrolling down the knob) :

- Autozero
- Units
- Integration
- Point by point average
- Automatic point by point average
- Automatic average
- Air velocity with Pitot
- Air velocity with Debimo
- Air flow with Pitot (rectangular, circular)
- Air flow with Debimo (rectangular, circular)
- Air flow with K Factor

To validate a function, press on the knob when the wished function is shown on the screen.

➤ **Autozero** :

To realize a manual autozero, press on the knob when the scrolling down menu displays "autozero".

➤ **Units** :

See p. 7

➤ **Integration** :

The coefficient of integration allows to smooth the measure, to avoid the inconvenient variations. To enter a coefficient, use the knob to make scroll down figures from 0 to 9 and validate by pressing on the knob.

Coefficient 0: no integration, important fluctuation in the shown measure.

Coefficient 9: maximal integration, more stable reading (recommended coefficient of integration).

➤ **Point / point average** :

See p. 8

➤ **Automatic point / point average** :

See p. 8

- **Automatic average** :
See p. 8
- **Air velocity with Pitot** :
See p. 10
- **Air velocity with Debimo** :
See p. 10
- **Air flow with Pitot** :
See p. 8-9
- **Air flow with Debimo** :
See p. 9
- **Air flow with K Factor** :
See p. 9

TEMPERATURE MENU ---

When you connect your probe(s) (see connections p. 3), the screen shows its characteristics. It is possible to connect up to 2 probes PT100 and 2 probes thermocouple K at the same time. Press then on the knob to enter in the menu temperature, the measured value is shown in the screen and the following menu appears on the last line (by browsing the menu by scrolling down the knob):

- Units
- Delta T (only if 2 probes of identical technology are connected)

To validate a function, press on the knob when the wished function is shown on the screen.

**Display : T1 and T2 : thermocouple K probes
C1 and C2 : PT100 probes**

- **Units** :
See p. 7
- **Delta T** :
See p. 8

HOT-WIRE ANEMOMETRY MENU ---

When you connect a hot-wire probe, the screen shows its characteristics (do not forget to slide below the protective tube on a level of the sensitive element). Press then on the knob to enter in the menu hot-wire anemometry, the screen shows the measured values in air velocity and in temperature, and the next menu appears on the last line (by browsing the menu by scrolling down the knob) :

- Units
- Automatic average
- Point / point average
- Automatic point / point average
- Airflow (rectangular, circular, ariflow cones)
- Delta T (only if one PT100 probe is connected on C2)

To validate a function, press on the knob when the wished function is shown on the screen.



- **Units :**
See p. 7
- **Automatic average :**
See p. 8
- **Point / point average :**
See p. 8
- **Automatic point / point average :**
See p. 8
- **Airflow :**
See p. 9
- **Delta T :**
See p.8

VANE ANEMOMETRY MENU

When you connect a vane probe, the screen shows its characteristics. Press then on the knob to enter in the menu vane anemometry, the screen shows the measured values in air velocity and in temperature (for the Ø16mm vane probe, only the air velocity appears) and the next menu appears on the last line (by browsing the menu by scrolling down the knob) :

- Units
- Automatic average
- Point / point average
- Automatic point / point average
- Airflow (rectangular, circular, cone : only for the vane probe Ø100 mm)
- Delta T (only if one Pt100 probe is connected on C2 and if you use a vane probe Ø70 or 100mm)

To validate a function, press on the knob when the wished function is shown on the screen.

- **Units :**
See p. 7
- **Automatic average :**
See p. 8
- **Point / point average :**
See p. 8
- **Automatic point / point average :**
See p. 8
- **Airflow:**
See p. 9
- **Delta T :**
See p.8



HYGROMETRY MENU

When you connect a hygrometry probe, the screen shows its characteristics. Press then on the knob to enter in the hygrometry menu, the screen shows the measured values in humidity, temperature, absolute humidity and dew point temperature and the next menu appears on the last line (browse the menu by scrolling down the knob):

- Units
- Psychrometry
- Contact dew point temperature (only if a PT100 probe is connected)
- Delta T (only if a PT100 probe is connected)

To validate a function, press on the knob when the wished function is shown on the screen.

➤ **Units** :

See p. 7

➤ **Psychrometry** :

When you access to the sub-menu "Psychrometry", the display shows the temperature, the humid temperature (Tw), the humidity, the absolute humidity (ρ_v) and the enthalpy (i). To come out of the psychrometry menu, press on "ESC".

➤ **Contact dew point temperature** :

When you enter to this sub-menu, the screen shows the temperature of the PT100 probe (external), the temperature of the contact dew point (Td), the humidity and the temperature integrated in the hygrometry probe. To come out of the dew point temperature menu, press on "ESC".

➤ **Delta T** :

See p. 8

TACHOMETRY MENU

When you connect a tachometry probe, the screen shows its characteristics. Press then on the knob to enter in the tachometry menu. Browse the menu by scrolling down the knob, then select the type of the tachometry probe you have connected (optic or contact). If you use an optical probe, it is necessary to mark the turning part with a little piece of reflective tape. The screen shows the measured value and the next menu appears on the last line:

- Units

To validate this function, press on the knob.

➤ **Units** :

See p. 7

SUB-MENUS

➤ **Units** :

Browse the different available units by scrolling down the knob and validate pressing on the knob. When you have the choice between various parameters (velocity and temperature, for example), you have to validate each unit of measure.



➤ **Delta T :**

When 2 PT100 probes or 2 thermocouple K probes are connected, you have the possibility of calculate the Delta T which corresponds to the difference between the temperature measured by C1 (or T1) and C2 (or T2). If 2 PT100 probes and 2 thermocouple K probes are connected at the same time, the screen shows 2 delta T. To come out of this function, press the touch "ESC".

Reminder: possible only between 2 probes of identical technology.

➤ **Automatic average :**

This function allows to calculate the average value that the device measured in an interval of chosen time. When "Departure" appears on the screen, press on the knob to start the calculation. The screen registers the sold time. To stop and reach the result, press again on the knob. The results are registered on the screen: average (s), minimum value (s), maximum value (s), standard deviation(s) as well as the duration of the calculation. Press on "ESC" to return to the previous page (by pressing on the knob, you begin a new calculation).

➤ **Point / point average :**

This function allows to calculate the average value of various points which you will have validated. The scrolling down menu allows to validate a point or to reach the average of points previously validated. To validate a point, press on the knob. Validate as many points as necessary, then by means of the knob, choose "Average" and validate. The screen shows then: average(s), count of validated points, minimum value(s), maximum value(s) and standard deviation(s). To show the values of the various points, press on the knob. Press then on "ESC": once to return to the previous display, twice to begin another calculation and three times to go out of the menu "point / point average".

➤ **Automatic point / point average :**

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

It is necessary to choose at first the duration on which will be calculated each of the points; browse the figures by scrolling down the knob and validate every number by pressing on the knob. Once the duration validated, the scrolling down menu gives you access to the validation of points and to the average. Proceed then in the same way as for the calculation of "average point / point" (previous paragraph).

➤ **Airflow with Pitot (see connection of the Pitot tube p.10) :**

When you enter in this menu, it is necessary to begin by selecting the type of diffuser : rectangular or circular by scrolling down the knob

- **Rectangular** : browse then the units of measurement by scrolling down the knob and validate. Enter the length of the diffuser. Browse each figure by scrolling down the knob and validate pressing on the knob (to return to the previous figure, press on "ESC"). Proceed in the same way for the width.

You have access to a new scrolling down menu :

- Autozero (see p. 4)
- Units (see p. 7)
- Point/point average (see p. 8)
- Automatic point/point average (see p. 8)
- Temperature equalization (see p. 10)

- **Circular** : browse then the units of measurement by scrolling down the knob and validate. Enter the diameter of the diffuser. Browse each figures by scrolling down the knob and validate pressing on the knob. You have access to a new scrolling down menu :

- Autozero (see p. 4)
- Units (see p. 7)
- Point/point average (see p. 8)
- Automatic point/point average (see p. 8)
- Temperature equalization (see p. 10)

► **Airflow with Debimo** :

The principle is the same that the sub-menu "Airflow with Pitot" : Select the type of diffuser, the length and the width or the diameter. The screen shows the following scrolling down menu :

- Autozero (see p. 4)
- Units (see p. 7)
- Automatic average (see p. 8)
- Temperature equalization (see p. 10)

► **Airflow with K Factor** :

The K Factor is a coefficient making possible to calculate a flow from a Delta P.

This coefficient is supplied by the manufacturer of supplying diffusers equipped with pressure connections (+ and -). The K Factor is stated in the technical datasheet from the manufacturer.

From the square root of the measured pressure (Delta P), and from the K Factor, you get the airflow (m³/s, m³/h, L/s, cfm) :

$$\text{Flow} = \sqrt{\text{Delta P} \times \text{Kf}}$$

The window "K Factor flow" appears. During the first use, it displays a zero value of the coefficient (0,00). To modify the value of the K Factor, press the control knob. You can "Confirm" or "Modify" your choice. Select "Modify", then validate. Then enter the value of the coefficient using the control knob, and validate again (possibility to indicate up to 10 different values). Then select the unities of flow (m³/s, m³/h, L/s, cfm) and of pressure (mmH₂O, inWG, kPa, mmHG, mbar, Pa). Validate.

The screen displays the value of the measured flow, the Delta P and the K Factor.

► **Airflow** :

When you enter in this menu, you have to begin by selecting the type of diffuser : rectangular, circular and cones (with hot-wire probe and vane Ø100 mm probe).

- **Rectangular** : Proceed in the same way that the menu "Airflow with Pitot". You will then have access to the following scrolling down menu:

- Units (see p. 7)
- Automatic average (see p. 8)
- Point / point average (see p. 8)
- Automatic point / point average (see p. 8)

- **Circular** : Proceed in the same way that the menu "Airflow with Pitot". Then, you will have access to the following scrolling down menu:

- Units (see p. 7)
- Automatic average (see p. 8)
- Point / point average (see p. 8)
- Automatic point / point average (see p. 8)

- **Cones (for hot-wire and vane Ø100 mm anemometry)** :

- *For hot-wire anemometry* : Select the reference of the cone used (K35, K75,...) by the means of the knob, then the mode of ventilation (exhaust or supply). Validate, the measure appears and the screen shows the following menu :

- Units (see p.7)

- *For vane Ø100 mm anemometry* : The screen displays "K25 cone". Validate, the measure appears and the screen shows the following menu :

- Units (see p.7).



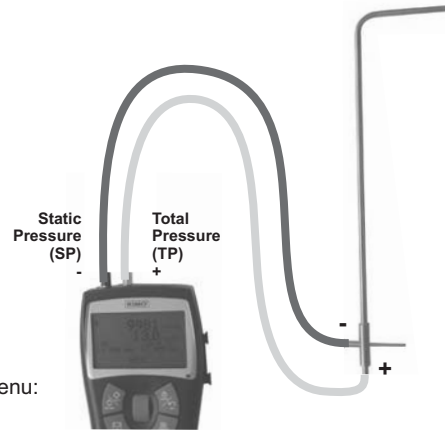
➤ **Velocity with Pitot :**

Connect the Pitot tube (See plan opposite).

At the bottom of the screen appears the following submenu:

- Autozero (see p. 4)
- Temperature equalization (see p. 10)
- Automatic point / point average (see p. 8)
- Point / point average (see p. 8)
- Units (see p. 7)

Dynamic pressure = TP - SP



➤ **Velocity with Debimo :**

At the bottom of the screen appears the following submenu:

- Autozero (see p. 4)
- Units (see p. 7)
- Automatic average (see p. 8)
- Temperature equalization (see p. 10)

➤ **Temperature equalization :**

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.

When you are in the menu 'Temperature equalization', modify the symbol (+ o -) by the means of the knob and validate pressing on the knob. You have to process in the same way to validate each of the 4 figures of the temperature.

SETTINGS

To reach the various settings, switch on the device (do not connect a probe). Press then on "ON / OFF".

The following scrolling down menu appears :

- Date and hour
- Retro-lighting
- Contrast
- Keys Beep
- Languages
- Automatic stop
- Solenoid valve

To validate a function, press on the knob when the wished function is shown on the screen.

➤ **Date and hour :**

Use the knob to settle each figures of the date and of the hour, and validate at each time pressing on the knob. To return to a figure previously validated, press on "ESC".

➤ **Retro-lighting :**

It is possible to activate or to deactivate the retro-lighting of the display : by means of the knob choose "ON", "OFF" or "automatic" and press to validate. To go out of this menu, press on "ESC".

➤ **Contrast :**

By the means of the knob, adjust the contrast of the screen from 0 to 7 and validate by pressing on the knob.

➤ **Keys beep :**

It is possible to activate or to deactivate the tone of keys. Validate the chosen option by pressing on the knob.

➤ **Languages :**

By the means of the knob, browse the different available languages and validate pressing on the knob.

➤ **Automatic stop :**

It is possible to cancel the automatic stop of the device or to settle it. For that purpose, use the scrolling down knob and choose " OFF " to cancel the automatic stop or choose a value (by slice of 15 minutes).

When you restore data on PC, the automatic stop does not work, but at the end of the load, the device goes out automatically.

➤ **Solenoid valve :**

You can activate or deactivate the solenoid valve, that is make an autozero. **It is nevertheless strongly recommended to leave it active.**

DATA RECORDING, PRINTING AND DELETING _____

Before enter in the menu "recording", it is necessary to connect the probes that will be used. Enter in the menu which you wish to record. Press the key "Recording" (see p. 3) to reach the menu " Datalogger ". At the bottom of the screen appears the following scrolling down menu:

- New
- Print
- Delete

It is thus possible to print data, to record or to delete them.

➤ **New :**

This function allows to register a new campaign of measures. It is necessary to enter first of all the name of the file (12 characters at most). Browse the letters by scrolling down the knob and validate every character by pressing on the knob or by choosing the symbol ◀ if you enter less than 12 characters. Choose then if you wish a manual or automatic recording of the data (by means of the knob).

- **Manual recording :** validate as many points as you wish by pressing on the knob (the number of registered points is indicated on the last line). Press on the key "Recording" to stop the recording. If you really wish to stop, choose "Yes" and to continue to register points, click on "No" (by means of the knob).

- **Automatic recording:** By means of the knob, choose the interval of time between the recording of each of the points (the minimum is of 5 seconds). Choose then the duration on which points are going to be registered (validate the number of days, hours and minutes) then validate. The recapitulative appears on the screen. To begin the recording, press twice on the knob. Once the ended recording, the device switches of. To stop the current recording, press on "Recording". If you really wish to stop, choose "Yes" and to continue the recording, click on "No" (by means of the knob).

To restore the data registered on a PC, switch on the device (without any probe) and connect the cordon on the port USB (see p. 3). **During the recordings, the automatic stop of the device does not work, but at the end of the procedure, it will switch off automatically.**



➤ ***Print :***

When "Print" is validated, by means of the knob, choose the campaign which you wish to print and validate by pressing on the knob. Go out of the menu "printing" by pressing on "ESC".

➤ ***Delete :***

This function allows to delete the campaigns of measure stored in the device. To enter in the menu "delete", validate by pressing on the knob. Then, always by means of the knob, choose to cancel or to confirm the demand.

GUARANTEE

KIMO provides a one-year guarantee, starting from the date on which the appliance was originally purchased, that any new appliance will be free of any manufacturing or structural defects. This guarantee does not cover defects resulting from incorrect handling or from any repairs which may be made by persons other than the manufacturer.

Any defects covered by this guarantee will be repaired free of charge. An estimate will be provided for any damage not covered by this guarantee. The customer's prior approval will be requested before any repairs are done.

KIMO will see to the replacement of any constituent parts of this appliance.

Any appliance, whether under guarantee or not, must be returned carriage paid. A letter detailing the faults defected should be sent with the appliance whenever possible.

CALIBRATION

All KIMO devices are calibrated in our premises and supplied with a calibration certificate, as per the AFNOR FD X 07-012 norms, in accordance with the National Standards.

In order to comply with standards of Quality Assurance, measuring devices should be checked annually.



Ref. NT Ang - AMI 301 - 11/02 C

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