

# THERMO-HYGROMETER HD 100



- Reliable and accurate
- Simple to use
- Display of 2 parameters simultaneously
- Selection of languages

## FUNCTIONS



### THERMO-HYGROMETER :



- ▶ Relative humidity
- ▶ Dew point
- ▶ Pt100 temperature inside the probe
- ▶ Hold function
- ▶ Min. et max. values
- ▶ Selection of units



## SPECIFICATIONS

	Measuring units	Measuring ranges	Accuracy*	Resolution
Relative humidity	%RH	5 to 95 %RH	±2% of reading ±1,8%RH	0,1%RH
Dew point	°C, °F, K	-20 to +80°C	±2% of reading ±0,3°C	0,1°C
Ambient temperature	°C, °F, K	-20 to +80°C	±2% of reading ±0,3°C	0,1°C

\* Performed in laboratory conditions, all the above accuracies mentioned in this document will be guaranteed, provided that you use the calibration compensation data or identical calibration conditions.

### 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

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

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

# TECHNICAL FEATURES

**DISPLAY** : 2 lines of 12 characters. Size 38 x 12 mm.

**HOUSING** : Shock-proof, made of ABS/PC.

**KEYPAD** : Made of Elastomer : 5 keys.

**CABLE** : retractable, length 450 mm, up to 2,4m when released

**MEASURING ELEMENTS :**

**Hygrometry** : capacitive element

**Ambient temperature** : Pt100 class A.

**CONFORMITY** : electromagnetical compatibility (norm NF EN 61326-1)

**POWER SUPPLY** : 1 Alcaline battery 9 V 6LR6

**WORKING ENVIRONMENT** : Neutral gas

**WORKING TEMPERATURE** : From 0 to 50°C.

**STORAGE TEMPERATURE** : From 0 to 50°C.

**AUTOMATIC SHUT-OFF** : 30 min

**DIMENSIONS** : 145 x 75 x 34 mm

**WEIGHT** : 190 g

**LANGUAGES AVAILABLE** : French, English.

## SUPPLIED WITH...

O Optional

X Included

**HD 100**

Hygrometry probe Ø 13 mm, lg. 110 mm	X
Transport case	X
Calibration certificate	X



## ACCESSORIES

- Rubber boot protection, with magnet and holding-leg
- Straight connections, in T and Y for tube Ø 5 x 8 mm
- Telescopic extension, length 1m bent at 90° for probe.
- Sealing caps for ducts Ø 11,5 to 13 mm.  
Ref GPNU8B (bags of 10 units). Further diameters available.

## AFTER-SALES SERVICE

Kimo performs the calibration, the adjusting and maintenance of all their instruments to guarantee a constant level of quality of your measurements. Within the Quality Insurance norms, we recommend that the instruments are checked once a year.

## USING

Selection of the language : (with unit switched off) press and hold "OK". Then press "ON/OFF". Press "HOLD" to confirm English and press "SELECT" for French.

To switch on, press "ON/OFF".

When plugging the probe, the measure appears.

- Selection of unit of measure : press "SELECT" to scroll down the different units. To validate the unit, press "OK" and press "ESC" if you wish to come back to the pending measurement unit.
- Minimum and maximum values: press once "MIN/MAX" to display the values in temperature and press twice to display the hygrometry. Press "ESC" to escape this menu.
- Function HOLD : to hold the measure, press "HOLD" and to come back to the measure, press the same key.
- Dew point : to display the dew point temperature, press "OK". Press once to display the dew point. Press twice to display the dew point and the relative humidity. Press 3 times to come back the dew point menu.

To switch off, press and hold "ON/OFF" during few seconds.



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

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