

THERMO-HYGROMETER HD 50

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 ±2,5%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...

X Included

HD 50

Hygrometry probe Ø 13 mm, lg. 110 mm	X
Adjusting certificate	X

ACCESSORIES

- Rubber boot protection, with magnet and holding-leg
- 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.
- Transport cases



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.



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