

New

CE

THERMO-HYGROMETER HD 200

SUPPLIED
WITH
Calibration
Certificate



- Intuitive menu with control knob
- Ergonomic housing with Elastomer protection
- Display of 5 parameters
- Display of battery life level
- Interchangeable Smart Pro probes
- Automatic recognition of the probes
- Display of calibration date
- 2-channel thermometer
- Data-logging capabilities
- PC and printer interface
- Selection of languages



FUNCTIONS



THERMO-HYGROMETER :



- Hygrometer : relative humidity, absolute humidity, ambient temperature, dew point, Pt100 temp. (channel C2 in option)
- Psychrometer : dry and wet temperature, relative humidity, absolute humidity, enthalpy.
- Surface dew point : contact dew point, contact temperature, relative humidity, ambient temperature



Pt100 THERMOMETER :

- Pt100 temperature : 2 channels
- Dynamic delta T



DATALOGGER :

- Multi-parameters recording
- Manual and automatic storage
- Memory : 8000 pts and 40 measuring campaigns
- Simple to use, with printing of customized report
- Management of instrument fleet, and follow-up of the calibration periods.

SECONDARY-FUNCTIONS :

Hold, min. and max. values, standard deviation, printing, adjustable automatic shut-off, selection of languages.

SPECIFICATIONS

The HD 200 is a multi-probe instrument, compatible with hygrometry and Pt100 temperature probes, equipped with SMART PRO system. These probes are supplied with calibration or adjusting certificate (last calibration date display when connected). They are automatically recognized when connected, and are fully interchangeable.

	Measuring units	Measuring ranges	Accuracy*	Resolutions
Relative humidity	%RH	3 to 98 %RH	±1% of reading ±1,5%RH	0,1 %RH
Absolute humidity	g/kg	0 to 190g/kg	calculated	0,1g/kg
Dew point	°C, °F, K	-20 to +80°C	calculated	0,1°C
Ambient temperature	°C, °F, K	-20 to +80°C	±2% of reading ±0,1°C	0,1°C
Pt100 temperature	°C, °F, K	-100 to +400°C	±2 of reading ±0,1°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

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

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

TECHNICAL FEATURES

DISPLAY :

Graphic, with automatic backlighting. Size 48 x 24 mm.

HOUSING :

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

KEYPAD :

Made of Elastomer : 4 keys and one control knob.

CONNECTIONS :

Connectors : mini-DIN secured plugs.

Numeric connection output : USB.

COMMUNICATION MODE :

RS 232.

MEASURING ELEMENTS :

Hygrometry : capacitive element

Pt100 temperature : Pt100 class A

CONFORMITY :

Electromagnetical compatibility (norm NF EN 61326-1)

POWER SUPPLY :

4 Alkaline batteries 1,5 V LR6

WORKING ENVIRONMENT :

Neutral gas

WORKING TEMPERATURE :

From 0 to 50°C.

STORAGE TEMPERATURE :

From 0 to 50°C.

DIMENSIONS :

176 x 78 x 35 mm

WEIGHT :

400 g

LANGUAGES AVAILABLE :

French, English, Spanish, Portuguese, Italian, German, Dutch.

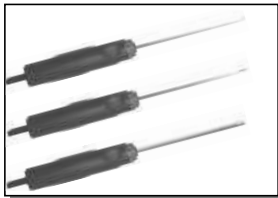
SUPPLIED WITH...

O Optional

X Included

HD 200

Hygrometry probe Ø 13 mm, length. 110 mm	X
Pt 100 temperature probes	O
Printer	O
Software for PC	O
Transport case	X
Calibration certificate	X



Large choice of Pt100 probes :
ambient, general use , penetration, contact...
(For more details, you can refer to the technical
data sheet of the probes for portable instruments).

ACCESSORIES

- Telescopic extension, length 1m, bent at 90° for measuring probe
- Hands-free protection cover
- Printer
- Software for PC
- Silicone heat-conductive grease for temperature probes
- Adaptor for power supply 230 Vac



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.

www.kimo.fr

EXPORT DEPARTMENT

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