

Technical Data Sheet

Pressure • Temperature • Humidity • Air Velocity • Airflow • Sound level



Thermo-hygrometers





Functions

- Relative humidity, dew point and ambient temperature
- Selection of units (temperature and dew point)
- HOLD function

- Minimum and maximum values
- Adjustable automatic shut-off
- · Adjustable backlight

Technical features

Measuring element	ing elementHygrometry and temperature :		
	CMOS sensor		
Display	.2 lines, LCD technology. Sizes 50 x 34.9 mm.		
	1 line of 5 digits with 7 segments (value)		
	1 line of 5 digits with 16 segments (unit)		
Housing	Shock-proof made of ABS, IP54 protection		
	or IP65 with food industry protective cover		
Keypad	Metal-coated with 5 keys		
Cable	retractable, length 450 mm, up to 2.4 m when		
	released		
Conformity	.electromagnetical compatibility (NF EN 61326-1 guideline)		
Power supply	.1 alcaline battery 9V 6LR61		
Operating temperature (instrument)from 0 to 50°C			
Operating temperature (probe)from -20 to +70°C			
Storage temperaturefrom -20 to +80°C			
Auto shut-off	.adjustable from 0 to 120 min		
Weight	190g		
Languages	.French, english		



HD 100 - Hygrometry probe - Fixed probe



HD 150 - Hygrometry probe - Fixed probe



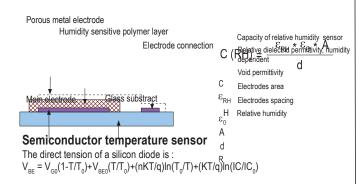
Specifications

	Measuring units	Measuring range	Accuracy*	Resolutions			
HUMID	HUMIDITE RELATIVE						
	%RH	from 5 to 95 %RH	Accuracy* (Repeatability, linearity, hysteresis) : $\pm 1.8\%$ RH (from 15°C to 25°C) Factory calibration incertainty : $\pm 0.88\%$ RH Temperature dependence : $\pm 0.04 \times (T-20)\%$ RH (if T<15°C or T>25°C)	0.1 %RH			
DEW POINT							
	°C _{td} , °F _{td}	from -40 to +70°C _{td}	±0.8% of reading ±0.6°C _{td}	0.1°C _{td}			
AMBIENT TEMPERATURE							
	°C, °F	from -20 to +70°C	±0.4% of reading ±0.3°C	0.1°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. As per NFX 15-113 and the Charter 2000/2001 HYGROMETERS, GAL (Guaranteed Accuracy Limit) which has been calculated with a coverage factor value of 2 is ±2.88%RH between 18 and 28°C on the measuring range from 5 to 95%RH.

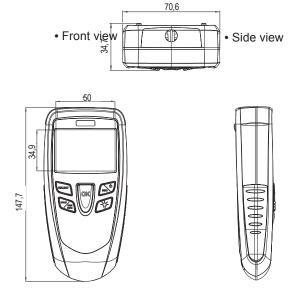
Capacitive sensing element for relative humidity measula/ourking principle

Inside the probes, a capacitive polymer layer reacts with the humidity present between two metal layers which cover a glass substract. Water absorption is a function of relative humidity of the surrounding environment, and modifies the dielectric constant. The measured signal is directly proportionnal to the relative humidity and is dependent on the atmospheric pressure.



· Top view

Dimensions



Supplied with ...

Included Optionnal

HD 100	HD 150	
•	•	
	0	
•	•	
	HD 100	

*except class 100S and 150S

Transport case

Accessories (See related datasheet)

CE 100	RTS
Protective cover with magnet and holding system	Telescopic extension (for probe), 1m long and bent at 90°.

Warranty period

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

www.kimo.fr

EXPORT DEPARTMENT

Tel: +33. 1. 60. 06. 69. 25 - Fax: +33. 1. 60. 06. 69. 29

e-mail: export@kimo.fr



Distributed by : PRC Technologies Corp., Ltd.

Tel: 02 530 1714, 02 530 1619, 02 530 1621

Fax: 02 530 1731

info@prctechth.com www.prctechth.com