



ClimMate testing chamber & display unit

Versatile measurement instrument for detection and display of ERH % (Equilibrium relative humidity or Water Activity value) as well as temperature.

**Chunks * Granulates *Coffee Beans * Cereals *Dry & Semi - dry Products*

The standard set consists of the CliMate hand-held meter with touch screen and water activity chamber for **probe immersion into product only**. The chamber has filled with sample and the top is screwed-on to create an air-tight seal. The ClimMate device can be connected to a PC by a USB so that interface and data can be downloaded, displayed and exported with the SmartGraph III software. This instrument is powered by 4 standard AA LR6 alkaline batteries or alternatively with a USB power supply unit.

nSens-HT humidity-temperature probe

An integral component of the system is the digital nSens-HT humidity/temperature probe which works over the whole measurement range with high accuracy and linear response characteristic. The calibration data is stored directly onto the sensor. The verification / calibration is performed by PC using the nSoft-CAL software. These plug-in probes are quickly replaced and the newly calibrated instrument may be put back into use again quickly, maintaining highest accuracy.

Product description:

ClimMate display unit

- Colour touch-screen display with cursor
- Data logging capability with 2 million data points
- Battery powered or by USB power supply

nSens-HT probe with ERH% test chamber

- Linear response characteristic
- Hysteresis free
- Intelligent, digital with calibration data storage
- Plug & Play



SET CONTAINS:

- 1 carrying case
- 1 handheld ClimMate instrument
- 1 nSens-HT-ENS probe
- 1 nSens cable extension 2m
- 1 USB-cable 1.8m
- 4 batteries alkaline LR6 AA, 1,5V
- 1 operating manual
- 1 x SmartGraph III PC software
- Calibration certificate

SPECIFICATION:

Measuring parameters: Relative humidity (ERH%) water activity, temperature, abs.press. 800-1100mbar (integrated): accuracy @25°C +/-0.5mbar.

Measurement ranges:	Humidity 3% ... 100% RH Temperature -20 ... +80°C
Measurement accuracy:	Humidity 15 ... 30°C typical +/- 2.0%ERH
Reproducibility:	0 ... 50°C typical +/- 0.8% RH
Hysteresis:	Humidity -20 ... +80°C typical +/- 2.5% RH
	Temperature 0 ... +70° 0.2K
Calibration points:	Humidity, 11% to 90% ERH points.
	Temperature, 2 points over full measurement range

Simple calibration against re-useable SC salt pots (two supplied with UKAS certification in each kit)

Dimensions W62 x D34 x H170 mm (without probe) Weight: approx. 200 gr Protection class IP54

Power consumption approx. 400 mW	Display Graphic display TFT 240 x 320, capacitive touch display
Operating temperature 0 to 50°C	Storage temperature -20 to +80° C
Interfaces USB for connection to PC / UMB for connection of external probes	
Probe nSens-HT-ENS / combined humidity-temperature sensor	

