NOVATRON
SCIENTIFIC

ClimMate/nSens-HT

ClimMate display & operation unit
Versatile measurement instrument for detection and display of parameters such as air humidity, temperature, absolute pressure, airfl ow, volumetric fl ow rate, CO2, water activity and more.

The standard set consists of a nSens-HT humidity / temperature probe and can be optionally extended. The display and operation device includes a big colour touchscreen, an intuitive menu structure and an integrated data logger function with 2 million data point storage. The ClimMate device can be connected to a PC by a USB 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 unit
• Colour touch-screen display with cursor
• Data logging capability with 2 million data points storage
• Climatic calculator
• Integrated absolute pressure sensor
• Various external probes available, e.g. CO2, airflow etc.
• Battery powered or byUSB power supply
nSens-HT probe
• Highest accuracy
• 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

(abs.press / rel.hum. / temp.)

SPECIFICATION:

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
Dimensions W62 x D34 x H170 mm (without probe) Weight: approx. 200 gr   Protection class IP54
Measuring parameters: Relative humidity, temperature, abs.press. 800-1100mbar (integrated): accuracy @25°C +/-0.5mbar.
Calculated parameters: Mixing ratio, water vapor pressure, dew point temperature, abs. humidity, wet bulb temp, water activity.
Interfaces USB for connection to PC / UMB for connection of external probes

Probe nSens-HT-ENS / combined humidity-temperature sensor:

Measurement ranges:	Humidity 0 ... 100% RH Temperature -20 ... +80°C
Measurement accuracy:	Humidity 15 … 30°C typical +/- 0.5% RH
Reproducibility:	0 … 50°C typical +/- 0.8% RH
Hysteresis:	Humidity -20 … +80°C typical +/- 2.5% RH
	Temperature 0 … +70°C typical +/- 0.1K -20 … +80°C typical +/- 0.2K
Calibration points:	Humidity, 13 points over full measurement range
	Temperature, 2 points over full measurement range

bsi. ISO 9001:2015 Quality Management

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