



#### 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
- 2 calibration certificates (abs.press / rel.hum. / temp.)

#### ClimMate display & operation unit

Versatile measurement instrument for detection and display of parameters such as air humidity, temperature, absolute pressure, airflow, volumetric flow rate, CO<sub>2</sub>, 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. CO<sub>2</sub>, airflow etc.
- Battery powered or by USB power supply

##### nSens-HT probe

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

#### SPECIFICATION:

Power consumption approx. 400 mW  
Operating temperature 0 to 50°C

Display Graphic display TFT 240 x 320, capacitive touch display  
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