

THB-85 Thermo-Hygrometer

Operation Instructions

I . Introduction

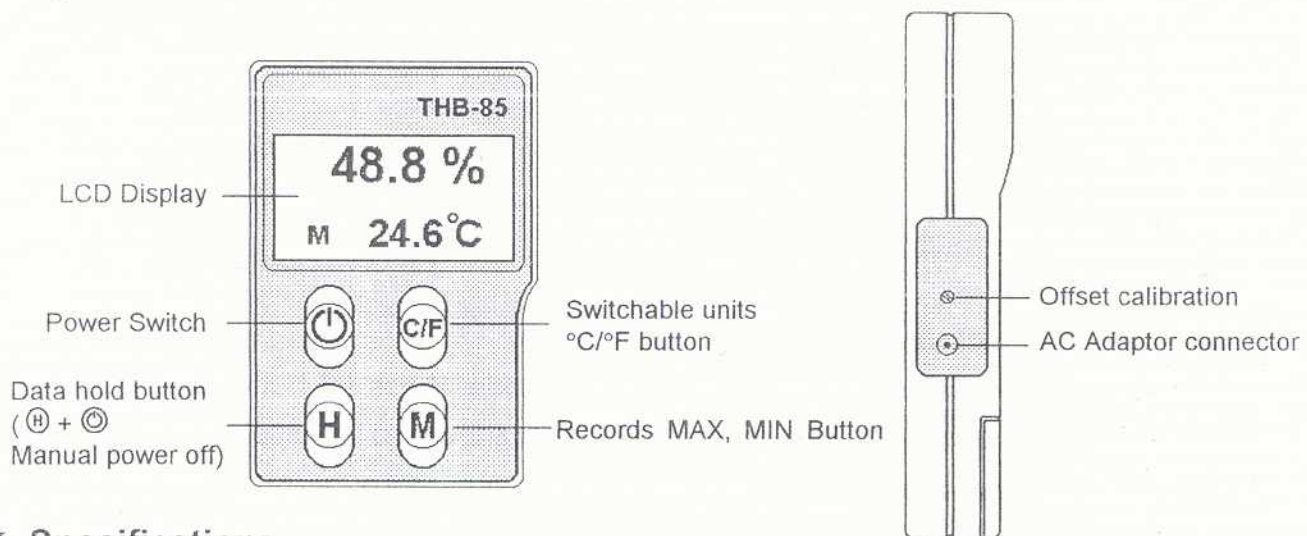
The THB-85 Thermo-Hygrometer is equipped with a microprocessor that calculate of temperature and humidity values for precise measurement.

The THB-85 is an accurate, compact thermo-hygrometer. Its portable size makes it handy and easy to use. The THB-85 features FAST RESPONSE, DATA-HOLD, °C/°F SWITCHABLE, MEMORY OF MAX, MIN VALUES, AND AUTO/MANUAL POWER OFF.

II . Applications

- Plant Maintenance
- Air condition systems
- Production processes, nurseries, greenhouse, textile mills
- Clean rooms, laboratories
- Freezers, Cool stores, Dry rooms and containers

III . Symbol definition and button location



IV . Specification:

Measurement Range	Relative Humidity 0 ~ 100% RH Temperature -40 ~ +85°C -40 ~ +185°F	Sensors	Humidity Thin Polymer capacitor. Temperature 100 ohm platinum RTD.
Resolution	0.1 % RH, 0.1°C / 0.1°F	Battery Life	Approx. 160 hours typical
Accuracy (at 25°C)	Humidity ±2% (0 ~ 95% RH) Temperature ±0.3°C / ±0.5°F	Power Supply	One 9V battery (alkaline), or AC adaptor (optional)
Display	Dual LCD display (4-digital), simultaneous display Temp and RH.	Operating / Storage Conditions	Instrument 0 ~ 50°C (+32 ~ 125°C) Probe -20 ~ 85°C(5 ~ +185°F)
Main Functions	Records MAX/MIN values, Data-Hold, °C/°F switchable, Auto/Manual power off, Low power warns, Offset calibration function, sensor fault warns.	Dimensions	Instrument 168 × 73 × 33 mm (6.6" × 3" × 1.3") Probe 20φ × 220Lmm (0.8"Dia × 8.7" Length) Cable length Approx. 920 mm (36")
Response (90%)	30 sec. (with membrane filter) 10 sec. (without filter)		

V. Operating Instructions

THB-85 Thermo-Hygrometer

⚠ Please read before using instrument!

A. Power Switch

Press the  button turns the meter on or off.

B. + Manual Power Off

Keep the  button pressed and push the  button turn on the meter, the meter will change to manual power off, the symbol **M** indication on the display, denote the meter is manual power off.

C. Auto Power off

Press  turn on the meter, it's under auto power off mode. The meter will automatically turns itself off about 7 minutes if no key is pressed.

D. °C/°F Switchover

When the meter was first power on, the default scale setting is set at Celsius (°C) scale, may switch between °C/°F by pressing the  button.

E. Data Hold Operation

If you need to temporarily lock in reading while you record it. The measured values can be held in the display by pressing  button, and a symbol **HOLD** will appear in the display.

※ To release, press  button again.

F. MAX/MIN Operation

Press the  button the meter will enter the MAX, MIN mode. Press  button again, a symbol **MAX** will appear in the display and the maximum value is shown on the display, re-press  button, the **MIN** symbol is on the display, to show the minimum value on the display. To release MAX/MIN mode, press  button again.

Power Requirements

The meter operates with a regular 9V (006P) battery or AC adaptor (option). Replace battery when the battery symbol  appears on display by removing the cover on the back of the instrument. Ensure correct polarity when inserting new battery.

Relationship Between Battery and AC Adaptor

If the AC Adaptor is connected to the meter when the meter have battery inside. The power supply will be automatically switched to the AC Adaptor conversely. If the AC Adaptor is disconnected, the power supply will be automatically switch to the battery.