

Temperature Humidity Probe Calibrator (THPC-01)

Wide Temperature Range

(THPC-01)

Offer a wide temperature & Humidity range from 5 to 50 °C / 10 to 90%Rh

Lightweight, portable

The (THPC-01)

Calibrator is ideal for Industrial/ Laboratory field use. It only weights about 8 kg, and it is small enough to carry around

Accuracy and performance

The (THPC-01)

is an easily portable unit that also provides excellent calibration accuracy with stability

Speed

The (THPC-01)

Extremely quick to reach various temperatures & Humidity Set Point In the Within a time. This saves time and increases productivity





For Humidity Calibration		
Sr. no.	Set RH (Humidity)	Set Temperature @
1	10%	50°C
2	15%	
3	20%	45°C
4	25%	40°C
5	30%	35°C
6	35%	30°C
7	40%	30°C
8	45%	25°C
9	50%	25°C
10	55%	25°C
11	60%	25°C
12	65%	25°C
13	70%	25°C
14	75%	25°C
15	80%	25°C
16	85%	25°C
17	90%	25°C
For Temperature Calibration		
Sr. no.	Set Temperature	Set RH (Humidity) @
1	0 °C	50% Rh
2	5°C	50% Rh
3	10°C	50% Rh
4	15°C	50% Rh
5	20°C	50% Rh
6	25°C	50% Rh
7	30°C	50% Rh
8	35°C	50% Rh
9	40°C	50% Rh
10	45°C	50% Rh
11	50°C	50% Rh
12	55°C	50% Rh
13	60°C	50% Rh

Technical Specifications

Model	THPC-01
Control Range	5 to 50 °C 10 to 90 % RH
Resolution	0.1 °C 0.1 % RH
Control Accuracy	± 0.1°C 0.1 % RH
In Stability	±0.5°C After Stabilization time of 10 minutes
	±1.1 % RH After Stabilization time of 10 minutes
Non Uniformity	±0.9°C After Stabilization time of 10 minutes
	±1.8% RH After Stabilization time of 10 minutes
Stabilization Time/settling time	10 minutes after set point is achieved.
Cooling Time	30 Min (Ambient to 5 °C) @25°C
Heating Time	15 Min (Ambient to 50 °C) @25°C
Time to reach Low RH	To 10% RH from 50 % RH : 20 minutes
Time to reach High RH	To 90%RH from 50 % RH: 10 minutes
Power Supply	230 V(AC), (50 Hz)
Power Consumption	300 Watt
Display	LCD, °C or °F user-selectable
Construction Size	300mm(L) x 190mm(W) x 380(H) mm
Instrument Weight	8 Kg
Environmental operating conditions	0 °C to 50 °C, 0 % to 90 % RH (non-condensing)
Method of Control	Self tuned PID controller
Specifications valid in environmental conditions	5°C ... 25°C

Note: - Due to Continuous product improvements, Published specifications may change without notice.

ACCESSORIES		
1	Basic Instrument	
2	Spare Glass Fuses (6A)	
3	Power Supply Card	
4	Traceable Calibration Certificate	Optional As per Quote
5	Warranty Certificate	With The Instrument

Congratulation on purchase of Temperature Humidity Probe Calibrator, Model: TRHPC01 this instrument is one of the best available in its class.

We have taken enough care in designing and manufacturing to give you trouble free performance for longer period.

Extends high performance to the industrial process environment by maximizing portability, speed and functionality with little compromise to metrology performance. high precision, better resolution, stability, fast in heating and cooling, with better Stability and uniformity.

Our newly designed model THPC-01 offers better esthetic design and performance wise upgraded to next level.

Operating Principle:

You require a moisture absorbent desiccant and Distilled water for use of temperature controlling mechanism to achieve good hygro-thermal calibration.

01. Maintain Environmental Condition @25°C.
02. Firstly Open Dry Container and Refill New Dry Desiccant in dry Container.
03. Open Water reservoir and Fill the distilled water in Water reservoir.
04. Connect the power supply to temperature humidity probe calibrator unit.
05. Clean the walls of working chamber with help of tissue paper.
06. Insert the UUC Probe (Sensor) Instruments, and reference master instruments In Working Chamber.
07. Place all the UUCs in such a way that they maintain a sufficient distance between each other so as not to block the air circulation inside the chamber.
08. After setting any point of RH, increase the RH in difference of 10% set point for better stability result.
09. Firstly Set the all RH required calibration Set points from lower to higher Points and perform Calibration.
10. After the achieving set point kindly wait for 10 minutes for stabilization. after 10 minutes take the Observation.
11. After the RH, Set Temperature Calibration points.

PRECAUTIONS

01. Do not use moisturized desiccant.
02. Always use distilled water.
03. Power supply should be off at the time of filling water in water reservoir in chamber.
04. At the start of calibration it is advisable to perform calibration points with low relative humidity (RH) Points as it will take very long time if calibration at high RH point is perform before calibrating Low RH points.
05. At end of the calibration open the Probe Insert Cap at ambient environment to remove the all moisture Inside the chamber.
06. For fast performance of calibration Use Temperature and RH calibration mode separately and refer below chart.