



*Premium Accuracy Thermo-hygrometer*  
**HygroCAL**

**TPRH-01**  
**Instruction**  
**Manual**





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## **PREFACE**

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Congratulation on purchase of “Tunix” make High precision thermo-hygrometer " hygroCAL" model TPRH-01 This instruments is one of the best available in its class.

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

## **STANDARED ACCESSORIES**

Please check for following Standard accessories/Observation upto receipt of the product

- 1) Product is not physically damaged.
- 2) Operating manual With Warranty certificate
- 3) Humidity Sensor Probe.
- 5) General Calibration Certificate.( Not accredited to 17025)
- 6) 17025 accredited calibration certificate(optional if orderd).
- 7) Carry Case

## FEATURES

- Premium best in class accuracy Thermo-hygrometer, proficient for high accuracy metrological applications,
- Testing and calibration labs, R & D Applications,
- Hand held enclosure with silicon rubber protector.
- Long sensor cable length useful for taking measurements in ducts, chambers, cleanrooms, Protected enclosures
- Minimum maximum function with reset feature.
- Protection class IP40, flame resistant ABS UL94V-0 Enclosure.

## TECHNICAL SPECIFICATION

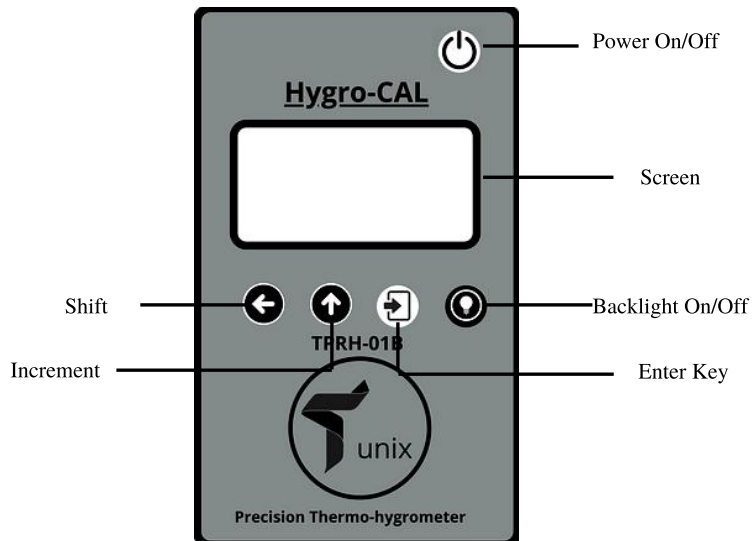
- Measurement Range ( Sensor only)  
Temperature: -40 °C. to 60 °C.  
Relative Humidity: 0 % RH to 100% RH.
- Accuracy :  $\pm 0.8$  % RH/  $\pm 0.3$  °C (@ 23 °C.)
- Resolution : 0.01 °C/ 0.01% RH
- Repeatability:  $\pm 0.2$  % RH/  $\pm 0.15$  °C.
- Sensor probe length: 175mm, Probe Dia : 15mm
- Sensor cable length: 1.5 meters
- Power supply: 2 AA dry batteries ,User replacable.
- Battery Back up : 2 Hrs continuous use with backlight on.
- Dimensions: 150mm (L) X 100mm(B) X 30 mm (W)
- Weight : 410 g.

## ENVIRONMENTAL CONDITIONS OF USE

*(Applicable for measurement/ Readout unit only )*

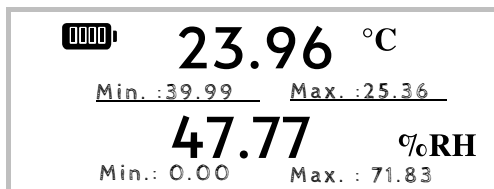
- Temperature: 0 °C. to 50 °C.
- Relative Humidity: 0 % RH to 80 % RH.

## KEY FUNCTIONS



- Increment Key: Reset Min/Max value of Relative humidity.
- Shift Key : Reset Min/Max value of temperature,
- Enter Key : Enter Key is for factory setting/kindly do not Use.
- Back lite Key: for On/ Off the backlite.

## DISPLAY



## DEFAULT SETTING

- Auto back light off : 1 minutes
- Auto power off : 2 minutes

## DO'S & DONT'S

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- Never use the instrument above & below specified temperature & relative humidity , The instrument is intended to be used only for measurement for Air temperature & Relative Humidity.
- Never use sensing probe of this instrument in liquids/fluids or condensing state of Air,
- Battery replacement : Remove the rubber grip gently, , remove lid of battery compartment at the back , replace the battery with AA cell & close the battery compartment.

## TROUBLE SHOOTING

- Instrument is not indicating any value .
- Check battery level /Check for sensor cable if it is loose/cut
- Instrument is indicating false/fluctuating value .
- Check for sensor cable if it is loose/cut
- Instrument is indicating wrong value .Check the calibration , send to factory /supplier for correction /repairing
- Instrument is not indicating any value, display is off ,Replace the battery

## CHECK LIST

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- Is Instrument working properly .....(Yes/No)
- Is Calibration certificate available (Optional) applicable only if ordered separately ?? .....(Yes/No)
- Is Carry case available(Optional)applicable only if ordered separately ? .....(Yes/No)
- Is all factory setting parameters of Instrument locked? .....(Yes/No )

**Name:**

**Date:**

**Signature**

# CALIBRATION CERTIFICATE

Certificate No. : \_\_\_\_\_

Date : \_\_\_\_\_

Model No. : \_\_\_\_\_

Temperature Range : \_\_\_\_\_

Humidity Range : \_\_\_\_\_

Reading On Calibrator	Reading on Master

**Calibrated By**

**Name:**

**Date:**

**Signature:**