

TRH-CA SERIES

Portable Digital Thermo-Hygrometer



FEATURES

- ▶ Portable unit with remote probe
- ▶ High accuracy with temperature compensation
- ▶ Handheld or belt-attached operation
- ▶ Large, 3-line liquid crystal display
- ▶ Adjustable display angle
- ▶ Simultaneous display of RH, temperature and either dew point or wet bulb
- ▶ Fast push button calibration
- ▶ Easy probe interchangeability
- ▶ Carrying case with belt loop

APPLICATIONS

HVAC/Building Controls • Energy Management Systems (EMS) • Enthalpy Control • Paint/Finishing Systems • Industrial/Manufacturing • Indoor Air Quality (IAQ) • Clean Rooms • Museums/Archives • Environment chambers • Test/Calibrations Labs • Hospitals/Labs • Refrigeration Control • Pharmaceutical • Swimming Pools • Animal Rooms

Model TRH-CA Series

Model TRH-CA Series units are portable, battery-operated, thermo-hygrometers with many state-of-the-art features. They measure relative humidity and temperature and have a large, three-line LCD display that can be adjusted through a 120° view angle.

The TRH-CA also calculates and displays either dew point or wet bulb temperature. The unit can be held in your hand, or attached to your belt or tripod for hands-free operation. It will provide up to 40 hours of continuous operation on a 9-volt battery.

The sensing element is Shinyei's proven bulk polymer resistive RH sensor. This sensor has negligible hysteresis, an exceptional long-term stability, and a high degree of resistance to most contaminants. The Model TRH-CA allows the user to verify its accuracy and if necessary, recalibrate with two external pushbuttons: one for 33%RH and another for 75%RH. Sensor interchangeability is accomplished quickly and easily via a simple ROM replacement.

Bulk Polymer Resistance Technology

EdgeTech's Model TRH-CA Series thermo-hygrometers use bulk polymer resistance sensor technology. This state-of-the-art technology improves the sensor's resistance to chemicals and moisture. Because the hygrometers are bulk resistive devices, they will not be affected by surface contamination in dirty environments. With bulk polymer technology you can expect long-term stability with minimal drift.

Benefits:

- ▶ Remains unaffected by surface and field contamination
- ▶ Maintains accuracy over high relative humidities and temperatures
- ▶ Operates with greater accuracy at significantly less cost



TRH-CA Series Specifications

MEASUREMENT

RANGE

Temperature: -20 to 80°C (-4 to 176°F), sensor
0 to 50°C (32 to 122°F), electronics

Humidity: < 99.9% RH, non-condensing

ACCURACY

Temperature: $\pm 0.3^{\circ}\text{C}$ ($\pm 0.5^{\circ}\text{F}$) at 25°C (77°F)

Humidity: $\pm 2\%$ RH at 25°C [77°F], 35 - 90% RH

FUNCTIONALITY

SENSORS

Temperature: Thermistor

Humidity: Shinyei Humidity Sensor HPR-MQ-M3

Calibration: Auto-calibration at 33% and 75% RH via external switches

PACKAGING

Power Supply: 9 VDC Battery, Auto power-off
Continuous use for 40 hours

Display: 3-line LCD: %RH, temperature, dew point
or wet bulb temperature

Weight: 1.1 lbs

