

## Replaceable Sensor Certificate of Validation

Dickson ensures that the Replaceable Sensors / Instruments listed below were developed, tested and validated together.

Replaceable Sensor Model: R200 and R250

Instrument Model: TH700

**Operation:** The Instrument and Replaceable Sensor models listed above were specifically designed to work together. No other sensors will work with the Instrument models listed. No other Instrument will work with the Replaceable Sensors listed. The Replaceable Sensor must be connected to the Instrument for the Instrument to operate properly.

**Calibration:** Only the Replaceable Sensor is calibrated. The sensor, and all calibration defaults and adjustments are stored on the Replaceable Sensor. Accuracy is strictly controlled by the sensor – no adjustments are made by the Instrument. Readings are sent from the Replaceable Sensor to the Instrument for storage purposes only. Certificates of Calibration / NISTs are only supplied for the Replaceable Sensor for this reason.

**Recalibration:** When a Replaceable Sensor is due for recalibration the existing Replaceable Sensor can be replaced with a new Replaceable Sensor thus eliminating the need to return the entire instrument for recalibration. Replaceable Sensors can be returned for recalibration as well.

### Warranty

Dickson warrants this line of instruments will be free from defects in material and workmanship under normal use and service for a period of twelve months, after delivery. This warranty does not cover routine calibration or battery replacement. For Specifications and Technical Support, go to <http://www.dicksondata.com> or contact us via telephone at 800.323.2448.

V.4 100313

## DICKSON Touchscreen Hand Held Indicator TC700 / TH700

### Getting Started

Your Hand Held Indicator includes the following:

- Probe or Replaceable Sensor
- Certificate of Calibration
- Quick Start Manual
- 9V Battery

### Settings

- Model: **TC700**  
Temperature Range: -300 to +1999°F, (-184 to +1093°C)  
(Note: Temperatures exceeding 500°F require optional probe A203)  
Unit of Measure: Deg. F
- Model: **TH700**  
Temperature Range: -40 to 185°F, (-40 to 85°C)  
Humidity Range: 0 to 95%  
Unit of Measure: Deg. F; % RH

### Quick Start

- 1) Insert 9V battery. Battery compartment located on the back of the indicator.
- 2) TC700: KTC probe must be plugged in before powering on.  
TH700: Replaceable Sensor must be connected to the indicator.
- 3) Press the power switch to turn on.
- 4) Indicator will immediately display readings.

### Power

- Requires 1 9V battery.
- Automatically shuts off power after 10 minutes of last touchscreen press.
- Battery life is approximately 50 hours. Backlight use will reduce battery life.
- Will not turn off while in Offset mode
- Battery level indicator will flash when battery power is low.

### Indicator Operation

#### F/C

To switch CH1 display between F and C, press the F/C button located in the battery compartment, while the unit is powered on.

## Indicator Operation (cont.)

TC700 Main Display



TH700 Main Display



**Hold:** Press **Hold** till "Hold" displays to the left of "Min". Will freeze the display on most current reading(s). Press **Hold** again, till the "Hold" symbol turns off, to exit hold mode.

**Clear Min Max:** Press to clear Min/Max readings. Note: Indicator will retain Min/Max readings from previous sessions unless cleared via **Clear Min Max**.



Press this segment to turn the backlight on/off. Backlight defaults to off when unit is first powered on.

**Scroll Lock:** To activate, press and hold **Scroll Lock** till display flashes 1x. Will stop CH1/Temperature and CH2/Humidity scroll on the channel that is being displayed when **Scroll Lock** is pressed. Readings for the displayed channel will continue to update. Pressing **Scroll Lock** again, till display flashes 1x, will resume CH1 and CH2 scroll.

**RH/DP:** Press to display CH2 readings as %RH or Dew Point. Unit of measure selected is displayed to the lower left of the current reading.



Indicates battery power level. When the battery is low, one segment will display and flash until the battery is replaced.

**Offset:** Pressing Offset for 3 seconds will activate Zero Offset Adjust.

- Display will change as follows displaying CH1 current readings.



- Allow indicator sensor to stabilize with a known accurate standard.
- Use Up/Down arrows to adjust reading to match standard.
- Press Hold to save adjusted reading. Set will display and flash for 3 seconds indicating that the CH1 adjustment is being saved.
- If model TC700, unit will exit Zero Adjust mode and return to normal operation.
- If model TH700, unit will display CH2 current readings.
- Allow unit to stabilize to standard for CH2
- Use Up/Down arrows to adjust reading to match standard.
- Press Hold to save adjusted reading. Set will display and flash for 3 seconds indicating that the CH2 adjustment is being saved.
- TH700 will exit Zero Adjust mode and return to normal operation.

### NOTE:

- Can only adjust CH2 Offset in RH. If CH2 is set to display readings as Dew Point, moving into Offset mode will display CH2 as RH during adjustment.
- Indicator will not power off while in Offset mode.