

# NIST Traceable Thermistor Instruments

Cooper-Atkins thermistor instruments are calibrated by means of temperature, electrical, and / or resistance standards traceable to the United States Department of Commerce National Institute of Standards and Technology (NIST). Used in HVAC/R applications where IAQ (Indoor Air Quality) and accuracy of measurements are critical to healthy environmental indoor conditions and product safety such as hospitals, labs, schools, refrigeration of products and energy consumption. Cooper-Atkins uses a calibrated traceable Kithely model 197Dmm, serial #266632 to check high precision resistors that are used to calibrate our electronics.



## TM99A-NIST

The industry standard for applications where only one temperature is read at a time. Features include: Min / Max memory, Hold, Auto Shut-off with an LCD backlight for dark environments. The TM99A includes a pouch and #1075 general purpose puncture probe.

**Temperature Range:** -40° to 302°F (-40° to 150°C)

**Accuracy:** ±0.3°F (0.2°C) or ±0.5% of reading whichever is greater

**Resolution:** 0.1°

**Regulatory Listings:** NIST, CE, WEEE, RoHS

**Warranty:** 5 year instrument, 1 year probe

## SH66A-E-NIST

The perfect choice for applications when multiple temperature measurements are needed. Features include: LCD backlight for dark environments; sealed keypad which protects the instrument from spills and dust; and a battery eliminator jack. It simultaneously measures suction and liquid line temperatures, temperatures across condensing coils, evaporator coils and ambient temperatures. View temperature differential between zones 1 and 2 and review min / max temperatures from all three zones. The SH66A-E-NIST includes the #1075 general purpose probe, #2010 Air Probe and #4011 pipe strap probe.

**Temperature Range:** -40° to 300°F (-40 to 150°)

**Accuracy:** ±0.3°F (±0.2°C) or ±0.5% reading, whichever is greater

**Resolution:** 0.1°

**Regulatory Listings:** NIST, CE, WEEE, RoHS

**Warranty:** 5 year instrument, 1 year probe

## SRH77A-E-NIST

The experts choice when temperature and relative humidity measurements are critical since it is a fast and accurate tool. Features Include: LCD backlight for dark environments; sealed keypad which protects the instrument from spills and dust; and a battery eliminator jack. View temperature differential, % relative humidity, and wet-bulb. View temperature differential between zones 1 and 2 and review min / max temperatures from all three zones. The SRH77A-E-NIST includes the #1075 general purpose puncture probe, #4011 pipe strap probe and #5028 slim humidity probe.

**Temperature Range:** -40° to 300°F (-40 to 150°C)

**Accuracy:** ±0.3°F (±0.2°C) or ±0.5% reading, whichever is greater

**Humidity Range:** 10 to 95% RH

**Humidity Accuracy:** ±2% (from 20 to 80% RH)  
±3% (below 20% and above 80%)

**Resolution:** 0.1°, 1% RH

**Ambient Operating Range:** 0° to 130°F (-18° to 54°C)  
(90% RH non-condensing)

**Regulatory Listings:** NIST, CE, WEEE, RoHS

**Warranty:** 5 year instrument, 1 year probe



### CERTIFICATE OF CALIBRATION & REPORT

#### Instrument Identification

Company: Customer A	Instrument ID #: 11413018
Description: Temperature Tester	Model: TM99A
Mfr.: Cooper-Atkins Corporation	Serial #: 11413018
Accuracy: ±0.3°F / ±0.2°C or ±0.5% of reading whichever is greater	
Emissivity: N/A	

#### Calibration Information

Technician: Employee A	Date: January 14, 2013
Condition, As Found: NEW	Temperature: 74.7
Condition As Left: In Tolerance	Humidity: 25%
Procedure: PS09-697	

## Five Year Instrument Warranty



Any instrument which proves to be defective in material or workmanship within five years of original purchase will be repaired or replaced without charge upon receipt. This Limited Warranty does not cover damage in shipment or failure caused by tampering, obvious carelessness or abuse, and is the purchaser's sole remedy.

