

Humidity & Temperature Meters

What is Relative Humidity and how do we measure it?



Defined as the amount of moisture in the air. Humidity measurement and control is required in many industries such as heating and air conditioning, food processing and transportation, agriculture and industrial processes.

Our thermo-hygrometers measure both relative humidity and ambient temperature, as well as some also measure dew point.

Relative humidity (RH) is the ratio of the quantity of water vapor in the air to the quantity of water vapor required for saturation at the same temperature.

Another common indication of humidity is dew point. Dew point is measured in °F or °C and is the temperature at which water vapor begins to form condensation. Dew point can be derived from relative humidity and ambient temperature.

\$149
8703



Model 8703

- Temperature in °F or °C
- Relative humidity
- Dew point measurement
- Min/Max memory
- Data hold
- Auto power-off (after 20 minutes), can also be disabled for unlimited time measurement
- Low battery indicator
- Cover protects sensor and acts as a handy pocket clip

\$125
5590



Model 5590

Pen-type thermo-hygrometer with integral probe for convenient one-hand operation.

- Pen-type digital thermometer / hygrometer
- Dual LCD display shows ambient temperature & relative humidity
- Humidity Range: 2% to 98%RH
- Temperature Range: 32 to 122°F / 0 to 50°C
- User selectable °F / °C
- Min/Max memory for both functions
- Batteries, belt clip & pouch included

Specifications Model	8703	5590
Humidity Range	0 to 100% RH	2 to 98% RH
Humidity Resolution	0.1% RH	1% RH
Humidity Accuracy	±3% @25°C from 10 to 90%RH / ±4% all other ranges	±5% RH
Temperature Range	-4 to 122°F/ -20 to 50°C	32 to 122°F/0 to 50°C
Temperature Resolution	0.1°F / 0.1°C	0.1°F/°C
Temperature Accuracy	±1°F/±1°C	±2°F/±1°C
Power Supply	2 x "AAA" alkaline batteries (included)	2 x LR44 1.5V batteries
Dimensions	0.66 x 1.9 x 6.7" / 16.8 x 48.5 x 170 mm	5.7 x 1.2 x 0.8" / 145 x 30 x 20 mm
Weight	-	3.35 oz/95 g
Price	\$149	\$125

Humidity & Temperature Meters

\$125
LM-81HT



Model LM-81HT

A pocket-sized thermo-hygrometer with a large dual digital display.

- Compact & lightweight
- Dual LCD display shows ambient temperature & relative humidity
- Humidity Range: 10% to 95%RH
- Temperature Range: 32 to 122°F / 0 to 50°C
- User selectable °F / °C
- Data Hold & Min/Max Function
- Battery included

Optional Accessories:

Model CA-52A Soft Carrying Case Price \$15

\$195
ST-321



Model ST-321

A rugged thermo-hygrometer with integral probe for convenient one-hand operation.

- Fast response time & quality performance
- Dual LCD, displays ambient temperature & humidity simultaneously
- Humidity Range: 0% to 100%RH
- Temperature Range: -4 to 140°F / -20 to 60°C
- User selectable °F / °C
- Data Hold, Min/Max Function & Auto shut off
- Carrying case & battery included

\$285
YK-80HT



Model YK-80HT

A rugged yet lightweight thermometer and humidity meter with dual display and remote sensing probe.

- Dual function digital thermo/hygrometer
- Dual LCD, displays ambient temperature & humidity simultaneously
- Humidity Range: 10% to 95%RH
- Temperature Range: 32 to 122°F / 0 to 50°C
- Data Hold, Min/Max Function & Auto shut off
- RS232 serial interface
- Humidity probe & battery included

Optional Accessories:

Model SW-U801-WIN Software Price \$97

Model UPGB-02 RS232 Cable Price \$30

Model CA-05A Soft Carrying Case Price \$21

LM-81HT	ST-321	YK-80HT
10 to 95% RH	0 to 100% RH	10 to 95% RH
0.1% RH	0.1% RH	0.1% RH
±5% RH	±3% RH	±3% RH
32 to 122°F/0 to 50°C	-4 to 140°F/-20 to 60°C	32 to 122°F /0 to 50°C
0.1°F/°C	0.1°F/°C	0.1°F/°C
±2.5°F/±1.2°C	±3°F/±1.5°C	±1.5°F/±0.8°C
1 x 9V battery	1 x 9V battery	1 x 9V battery
6.1 x 2.4 x 1.3"/156 x 60 x 33 mm	7.9 x 1.8 x 1.3"/200 x 45 x 33 mm	7.9 x 2.7 x 1.2"/200 x 68 x 30 mm
5.65 oz/160 g	7.05 oz/200 g	7.75 oz/220 g
\$125	\$195	\$285

Humidity & Temperature Meters

A variety of styles for a variety of applications.

Our humidity and temperature meters are available in the style to fit the user's measurement needs: pen style for high portability, remote probe for easy access into ducts and vents, and integral probe for convenient one hand operation.

Hygrometer and Infrared Thermometer Combines the versatility of a non-contact temperature meter with the convenience of humidity and air temperature measurements in one device. The advantages of an IR thermometer are instantaneous surface temperature readings and the ease of measuring temperature in locations that are difficult to reach.

Field Calibration Humidity standards are available for user calibrations.

Output Signal For use with chart recorders.

Integral or Remote Probes For one hand operation or remote measurements.



\$195
ST-8860



Model ST-8860

Integral probe thermo-hygrometer for convenient one-hand operation.

- Temperature Range: -58 to 2000°F / -50 to 1300°C
- Temperature accuracy of ±0.5%
- Humidity Range: 25 to 95% RH
- Data Hold & Max Hold functions
- Auto shut off & low battery indication
- Included accessories: carrying case, K-type temperature probe & 9V battery

\$195
ST-615



Model ST-615

A digital thermo-hygrometer with remote or integral probe, plus large dual display with backlighting.

- Type K Temperature Range: -4 to 1832°F (-20 to 1000°C)
- °F/°C selectable
- Humidity Range: 0 to 100% RH
- Resolution to 0.1° up to 200°, 1° over 200°
- Fast sampling time
- Auto power off
- Dual, large, easy to read backlit LCD
- Data hold & Max Hold
- Humidity probe & 9V battery included

Specifications

Model	ST-8860	ST-615
Humidity Range	25 to 95% RH	0 to 100% RH
Humidity Resolution	0.1%	0.1% RH
Humidity Accuracy	±5% RH	±3.5% RH
Temperature Range	-58 to 2000°F/-50 to 1300°C	-4 to 1832°F/-20 to 1000°C
Temperature Resolution	0.1°F/°C or 1°F/°C	0.1° up to 200°, 1° over 200°
Temperature Accuracy	±0.5% of reading	±2.0% rdg. ±4°F/2°C
Power Supply	1 x 9V battery	1 x 9V battery
Dimensions	9.9 x 2.5 x 1.6"/251 x 64 x 40 mm	5.9 x 2.8 x 1.4"/150 x 72 x 35 mm
Weight	8.8 oz/250 g	7.4 oz/210 g
Price	\$195	\$195

Humidity & Temperature Meters

\$225
ST-616CT



Model ST-616CT

An easy-to-use infrared thermometer and humidity meter in one compact unit.

- Non-contact Temperature Range: -58 to 932°F / -50 to 500°C
- Humidity Range: 0 to 100% RH, 0.1% RH resolution
- Built-in laser pointer & 8:1 distance to spot ratio
- Large, easy to read backlit LCD with dual display
- Max & Hold function, auto shut off
- Fixed 0.95 emissivity covers 90% of surface applications
- User selectable °F or °C
- Carrying case, humidity probe & 9V battery included

\$432
K6020



Model K6020

A rugged yet lightweight thermo-hygrometer with a remote sensing probe.

- Fast response time & quality performance
- Dual LCD, displays ambient temperature & humidity simultaneously
- Humidity Range: 10 to 95% RH
- Temperature Range: 32 to 122°F / 0 to 50°C
- Data Hold & Min/Max/Average functions
- Auto shut off & low battery indication
- Carrying case, probe & battery included

Optional Accessories:

Model RHA-33 33% RH Calibration Standards **Price \$60**

Model RHA-75 75% RH Calibration Standards **Price \$60**

\$495
C-314



Model C-314

- Dual input
- Triple display
- 16,000 record data logger
- Max/Min/Hold functions
- Timer function
- Auto power off
- Includes battery, manual, carrying case, K-type bead sensor, RS232 cable and Windows software

TEMPERATURE

Range/Accuracy: -4 to 140°F: ±1.4°F/-20 to 60°C: ±0.7°C;
-328 to 2498°F: ±0.3% rdg. +2°F/
-200 to 1370°C: ±0.3% rdg. +1°C

RELATIVE HUMIDITY

Range/Accuracy: 60VDC or 24Vrms AC
Probe Dimensions: 90mm L x 15mm dia. (7.5" x 0.6")

ST-616CT

0 to 100% RH
0.1% RH
±3.5% RH
-58 to 932°F/-50 to 500°C
0.1° up to 200°, 1° over 200°
±2.0% rdg. ±4°F/2°C
1 x 9V battery
5.9 x 2.8 x 1.4"/150 x 72 x 35 mm
7.4 oz/210 g
\$225

K6020

10 to 95% RH
0.1% RH
Approx ± 3% RH
32 to 122°F / 0 to 50°C
0.1°F/°C
±1.5°F / ±0.8°C
1 x 9V battery
7.3 x 3.1 x 1.5"/185 x 78 x 38 mm
12 oz/345 g
\$432

C-314

0 to 100% RH
-
±2.5% RH
-
-
-
9V NEDA 1604 battery
7.3 x 2.54 x 1.2"/186 x 64 x 30mm
11.25 oz/320 g
\$495