



## THWD-10 RH Meter

Perform precision temperature and humidity measurement for HVAC, Indoor Air Quality and environmental applications. The large LCD display, full suite of measuring features and two temperature probes (internal and external) make this product a preferred choice for a professional.

- Highly stable humidity measurement  $\pm 2.5\%$
- Processing relative humidity and temperature measurements simultaneously
- Two temperature sensors (internal and external)
- Wet/dry bulb, dew point measurement
- Easy selection between K/NTC/K-DP
- MAX/MIN/Average/Relative Zero and HOLD functions

### No hassle warranty

*No waiting.*

*No shipping charges.*



Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that an Amprobe Test Tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

(note: \$500 MSLP limit)



## THWD-10 RH Meter

## Data Sheet

### General Specifications

<b>Display</b>	5 digit liquid crystal display (LCD).
<b>Polarity</b>	Automatic, positive implied, negative polarity indication.
<b>Low Battery Indication</b>	The "⚡" is displayed when the battery voltage drops below the operating level.
<b>Operating Environment</b>	0°C to 50°C (32°F to 122°F) <80% R.H.
<b>Auto power off</b>	5 minutes
<b>Storage Environment</b>	-20°C to 60°C (-4°F to 140°F) <70% R.H. with battery removed from meter
<b>Accuracy</b>	Stated accuracy at 23°C ±5°C, <75% R.H.
<b>Battery</b>	1.5Vx4pcs AAA size.
<b>Battery Life</b>	200 hours typical
<b>Dimensions</b>	L241.3 X W157.98 X H76.2mm (9.5 X 6.22 X 3 in)
<b>Weight</b>	Approx. 286g (0.63 lb) including batteries.

**Electrical Specifications**

<b>Temperature Scale</b>	Celsius or Fahrenheit user-selectable
<b>Measurement Range</b>	K-Type -50°C to 1000°C, (-50°F to 1832°F)
<b>Resolution</b>	0.1°C or 0.2°F
<b>Accuracy</b>	Accuracy is specified for operating temperatures over the range of 18°C to 28°C (64°F to 82°F), for 1 year, not including thermocouple error. $\pm(0.1\% \text{ rdg} + 1^\circ\text{C})$ on -50°C to 1000°C $\pm(0.1\% \text{ rdg} + 2^\circ\text{F})$ on -50°F to 1832°F $\pm(0.05\% \text{ rdg} + 1.4^\circ\text{F})$ -58°F to -328°F
<b>Sensor</b>	Thermistor temperature sensor
<b>Range</b>	0°C to 60°C, (32°F to 140°F)
<b>Resolution</b>	0.1°C/°F
<b>Accuracy</b>	$\pm 2^\circ\text{C}$ on 0°C to 10°C $\pm 0.5^\circ\text{C}$ on 10°C to 45°C $\pm 2^\circ\text{C}$ on 45°C to 60°C $\pm 4^\circ\text{F}$ on 32°F to 50°F $\pm 1^\circ\text{F}$ on 50°F to 113°F $\pm 4^\circ\text{F}$ on 113°F to 140°F
<b>RELATIVE HUMIDITY</b>	
<b>Sensor</b>	Capacitive Humidity Sensor
<b>Range</b>	0% to 100% RH
<b>Accuracy</b>	$\pm 2.5\%$ at 25°C (77°F), 10% to 90% RH, $\pm 5\%$ at 25°C (77°F), 0% to 10% RH, 90% to 100% RH
<b>Sensor Response Time for 90% of Total Range</b>	60 sec typical
<b>Sensor Hysteresis (excursion of 10% to 90% to 10% RH)</b>	$\pm 1\%$ RH typical
<b>Temperature Coefficient</b>	0.1 times the applicable accuracy specification per °C from 0°C to 18°C and 28°C to 50°C (32°F to 64°F and 82°F to 122°F).
<b>Input Protection</b>	24V dc or 24V ac rms maximum input Voltage on any combination of input pins.
<b>Input Connector</b>	Accepts standard miniature thermocouple connectors (flat blades spaced 7.9mm, center to center).
<b>Included Accessories</b>	Users manual, Battery(4), K-type thermocouple

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