

TOOLS & INSTRUMENTS (<https://www.nist.gov/laboratories/tools-instruments>)

Dickson TH550 Humidity Meter

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Specifications/Capabilities

Range

- Temperature: -30 °C to 50 °C
- Humidity: 0% to 95% RH (no-condensing)
- Dew Point: -30 °C to 50 °C
- Resolution: 1% RH, 1°C



Accuracy

- Temperature: ± 1 °C
- Humidity: $\pm 2\%$ RH from 0 to 60%, $\pm 3\%$ RH from 61 to 95% at 23 °C
- Humidity Sensor: Thin Film Capacitor
- Dew Point Accuracy: ± 2 °C
- Temperature Sensor: Thermistor
- Sample Rate: Approx. 1 per second
- Average Response Time: 5 seconds to move 60% of full scale in air moving 15 feet-second⁻¹
- Ambient operating conditions: 0 °C to 50 °C, 0 to 90% RH
- Dimensions: 15.88 cm x 6.35 cm x 4.483 cm (6.25" x 2.5" x 1.9")
- Probe dimensions: 2.34 cm diameter, 15.0 cm long on a 15.2 cm cord (.92" D, 5.9" L, 6" cord)
- Weight: 0.3 kg (11 oz.)

Please refer to the [operation manual](#)

(<https://www.nist.gov/document/humiditymeterdicksonth550pdf>) for further information.

Details

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