



**Precalibrated &
Ready to Use!**

Thermohygrometers

Compact, lightweight design for accurate measurements anywhere!

Ergonomic handheld thermohygrometers provide a fast and convenient way to accurately spot-check relative humidity and temperature in a wide range of environments and applications. When accuracy is a must in the field, in the lab, or on the process floor, these meters deliver dependable results every time!

Features

- ◆ Reliable measurements, guaranteed! Precalibrated to NIST-traceable standards.*
- ◆ Large backlit LCD displays humidity, temperature, dew point, and wet bulb readings
- ◆ Feature Min/Max readings and Hold function
- ◆ User-selectable temperature readout in °C or °F
- ◆ Integrated humidity and thermistor (NTC) temperature sensor
- ◆ Auto power-off mode extends battery life

Additional features for model 20250-11

- ◆ Absolute humidity measurements

Additional features for model 20250-12

- ◆ External thermocouple type K input
- ◆ Target superheat mode (TSH) and target evaporator exit temperature (TEET) calculations provide more accurate balancing of airflow systems
- ◆ Dry bulb measurement

Additional features for model 20250-21

- ◆ Heavy-duty housing protects against knocks and jars
- ◆ Absolute humidity measurements

Applications

- ◆ HVAC
- ◆ Industrial
- ◆ Food industry
- ◆ Educational
- ◆ Laboratory
- ◆ R&D



Description	Thermohygrometer	Thermohygrometer with single type K input and superheat function	Professional thermohygrometer
Catalog number	MW-20250-11	MW-20250-12	MW-20250-21
Range			
Humidity	0 to 100% RH	0 to 100% RH	0 to 100% RH
Absolute humidity (calculated)	0 to 500 g/m ³ , 0 to 218.5 gr/ft ³ >	—	0 to 500 g/m ³ , 0 to 218.5 gr/ft ³
Temperature (NTC)	–22 to 212°F (–30 to 100°C)	32 to 140°F (0 to 60°C)	–22 to 212°F (–30 to 100°C)
Temperature (T/C)	—	–328 to 2501°F (–200 to 1372°C)	—
Dew point (calculated)	–22 to 212°F (–30 to 100°C)	–22 to 212°F (–30 to 100°C)	–22 to 212°F (–30 to 100°C)
Wet bulb (calculated)	32 to 176°F (0 to 80°C)	32 to 176°F (0 to 80°C)	32 to 176°F (0 to 80°C)
Resolution			
Humidity	0.1	0.1	0.1
Temperature (NTC)	0.1°F/C	0.1°F/C	0.1°F/C
Temperature (T/C)	—	0.1° (<1000°) or 1° (≥1000°)	—
Accuracy			
Humidity	±2% from 40 to 60% RH; ±3% from 20 to 40% RH and 60 to 80% RH; ±4% from 0 to 20% RH and 80 to 100% RH	±2.5% from 10 to 90% RH; ±5% from 0 to 10% RH and 90 to 100% RH	±2% from 40 to 60% RH; ±3% from 20 to 40% RH and 60 to 80% RH; ±4% from 0 to 20% RH and 80 to 100% RH
Temperature (NTC)	±0.9°F (0.5°C) from –4 to 140°F (–20 to 60°C); ±1.8°F (1°C) from –22 to –4°F (–30 to 19°C) and 140 to 212°F (60 to 100°C)	±1.8°F (1°C)	±1.8°F (1°C) from –4 to 140°F (–20 to 60°C); ±2.7°F (1.5°C) from –22 to –4°F (–30 to 19°C) and 140 to 212°F (60 to 100°C)
Temperature (T/C)	—	±[0.5% reading + 1.8°F (1°C)] above –148°F (–100°C); ±[0.5% reading + 3.6°F (2°C)] below –148°F (–100°C)	—
General			
Dimensions (L x W x H)	6½" x 2½" x 1⅜" (16.5 x 5.4 x 3.4 cm)	7¼" x 2½" x 1" (18.5 x 6.3 x 2.6 cm)	11⅞" x 3" x 2" (30 x 7.5 x 5 cm)
Power	Three AAA batteries	Three AAA batteries	One 9 V battery
Accessories included	Carrying case, batteries, NIST-traceable certificate with data and uncertainties	One type K flexible probe, carrying pouch, batteries, NIST-traceable certificate with data and uncertainties	Carrying case, battery, NIST-traceable certificate with data and uncertainties



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