

ENERGY AND COMFORT

Indoor Air Quality Instruments



Model 7425

Features and Benefits

- Reliably measures temperature and humidity
- Calculates wet bulb temperature
- Easy to read display shows parameters simultaneously

Added Features Model 7425

- Directly calculates dew point
- No psychometric chart needed
- Calculates % outside air
- Logs data with time and date stamp
- Stores 12,700+ samples and 100 test IDs
- LogDat2™ downloading software included

TH-CALC® Thermohygrometers

Models 7415 and 7425

The Model 7415 Thermohygrometer is a basic instrument that accurately and reliably measures temperature and humidity. It is ideal for use in thermal comfort studies and HVAC system performance testing. The Model 7425 Thermohygrometer is a diagnostic instrument with advanced capabilities, such as data logging, review of statistics and downloading to a PC using LogDat2 software (included).

Applications

- Conducting thermal comfort studies
- Conducting IAQ evaluations
- Verify building HVAC system performance
- Troubleshooting heating and cooling systems
- Monitoring air conditions for manufacturing processes



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Specifications

TH-CALC Models 7415 and 7425

Temperature

Range	0 to 60°C (32 to 140°F)
Accuracy ¹	±0.6°C (±1.0°F)
Resolution	0.1°C (0.1°F)

Humidity

Range	5 to 95% RH
Accuracy ²	±3% RH
Resolution	0.1% RH

Instrument Temperature Range

Operating (Electronics)	5 to 45°C (40 to 113°F)
Operating (Probe)	-10 to 60°C (14 to 140°F)
Storage	-20 to 60°C (-4 to 140°F)

Data Storage Capabilities (7425 only)

Range	12,700+ samples and 100 test IDs
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Logging Interval (7425 only)

1 second to 1 hour

Time Constant (7425 only)

User selectable

External Meter Dimensions

8.4 cm x 17.8 cm x 4.4 cm (3.3 in. x 7.0 in. x 1.8 in.)

Meter Probe Dimensions

Length	17.8 cm (7.0 in.)
Diameter of Tip	19.0 mm (0.75 in.)

Meter Weight with Batteries

0.27 kg (0.6 lbs)

Power Requirements

Model 7415	Four AA-size batteries
Model 7425	Four AA-size batteries or optional AC adapter

	7415	7425
Temperature	•	•
%RH, wet bulb	•	•
Dew point		•
% outside air		•
Data logging/downloading		•
Review data		•
Statistics		•
Field calibration adjustment		•
Certificate of Calibration	•	•

¹ Accuracy with instrument case at 25°C (77°F), add uncertainty of 0.03°C/°C (0.05°F/°F) for change in instrument temperature.

² Accuracy with probe at 25°C (77°F). Add uncertainty of 0.2% RH/°C (0.1% RH/°F) for change in probe temperature. Includes 1% hysteresis.

Specifications are subject to change without notice.

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