

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

Humidity

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

Instrument Temperature Range

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

Data Storage Capabilities (7425 only)

Range 12,700+ samples and 100 test IDs

Logging Interval (7425 only)

1 second to 1 hour

Time Constant (7425 only)

User selectable

External Meter Dimensions

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

Meter Probe Dimensions

Length (including handle)	11.15 in. (28.3 cm)
Diameter of Tip	0.75 in. (19.0 mm)

Meter Weight with Batteries

9.6 oz. (270 g)

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	•	•
Free Certificate of Calibration	•	•

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

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

Specifications are subject to change without notice.

TSI Incorporated - 500 Cardigan Road, Shoreview, MN 55126-3996 USA

USA	Tel: +1 800 874 2811	E-mail: info@tsi.com	Website: www.tsi.com
UK	Tel: +44 149 4 459200	E-mail: tsiuk@tsi.com	Website: www.tsiinc.co.uk
France	Tel: +33 491 95 21 90	E-mail: tsifrance@tsi.com	Website: www.tsiinc.fr
Germany	Tel: +49 241 523030	E-mail: tsigmbh@tsi.com	Website: www.tsiinc.de
Sweden	Tel: +46 8 595 13230	E-mail: tsiab@tsi.com	Website: www.tsi.se
India	Tel: +91 80 41132470	E-mail: tsi-india@tsi.com	
China	Tel: +86 10 8260 1595	E-mail: tsibeijing@tsi.com	



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