

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 <sup>1</sup>	±1.0°F (±0.6°C)
Resolution	0.1°F (0.1°C)

#### Humidity

Range	5 to 95% RH
Accuracy <sup>2</sup>	±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

7.0 in. (17.8 cm)

##### Diameter of Tip

0.75 in. (19.0 mm)

#### Meter Weight with Batteries

0.6 lbs (0.27 kg)

#### 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	•	•

<sup>1</sup> 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.

<sup>2</sup> 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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