

TH-CALC™ Thermohygrometers

Models 8720, 8722

TSI's TH-Calc™ Meters are excellent hand-held diagnostic instruments for measuring temperature and humidity. The Model 8720 measures temperature and humidity, and also calculates dew point. The Model 8722 adds data logging, and performs wet bulb temperature, absolute humidity, humidity ratio and % outside air calculations. TH-Calc Meters are ideal for conducting thermal comfort studies and Ventilation Testing/Balancing evaluations.



Model 8722

Features and Benefits

All Models

- Calculates dew point temperature directly
- Sampling function records multiple point measurements
- Optional portable printer provides hard copy documentation of measurements
- Two-line display shows multiple parameters simultaneously

Model 8722

- Directly calculates wet bulb temperature, absolute humidity and humidity ratio— no psychrometric chart needed
- Automatically calculates % outside air from temperature readings
- Optional detachable secondary temperature sensor measures temperature at heat sources and investigates thermal gradients

Applications

- Verify building HVAC system performance
- Calculate thermal comfort levels
- Detect IAQ problems in schools, auditoriums, airports and homes
- Monitor air conditions for industrial drying processes

Data Logging Capabilities

Model 8722

- Data logging allows user to log 14,000 samples with a time and date stamp
- Simultaneously records all parameters available
- Continuous data logging enables cyclical monitoring and trend analysis
- Discrete data logging for taking spot measurements
- Data can be reviewed on-screen, printed or downloaded to a computer for easy report generation
- TSI LOGDAT™ downloading software permits easy data transfer to a computer
- LOGDAT™ Companion Excel® Macro automatically graphs your data
- Statistics function displays average, maximum and minimum values, and the number of recorded samples

Model Comparison

| Features | 8720 | 8722 |
|---------------|------|------|
| Temperature | ✓ | ✓ |
| Humidity | ✓ | ✓ |
| % Outside Air | | ✓ |
| Dew Point | ✓ | ✓ |

| | | |
|-------------------------------|---|---|
| Wet Bulb Temperature | | ✓ |
| Absolute Humidity | | ✓ |
| Humidity Ratio | | ✓ |
| Data Logging/Downloading | | ✓ |
| Statistics | ✓ | ✓ |
| Review Data | | ✓ |
| Printer Output | ✓ | ✓ |
| NIST* Calibration Certificate | ✓ | ✓ |

** U.S. National Institute of Standards and Technology.*

All Specifications subject to change without notice.

1 For range of 23 to 203°F (-5 to 95°C)

2 At 77°F (25°C). Add uncertainty of $\pm 0.03\%/^{\circ}F$ ($\pm 0.05\%/^{\circ}C$) away from calibrated temperature.