

IAQ-CALC TSI

Model 7525

TSI's IAQ-Calc™ Indoor Air Quality Meter 7525 is an outstanding instrument for investigating and monitoring indoor air quality or IAQ. Models simultaneously measure and data log multiple parameters. Model 7525 measures CO₂, temperature, humidity, and calculates dew point, wet bulb temperature, and percentage outside air.

SPECIFICATIONS

CO₂

Sensor Type	Dual-wavelength NDIR (non-dispersive infrared)
Range Accuracy ¹	0 to 5,000 ppm ±3.0% of reading or ±50 ppm, whichever is greater
Resolution	1 ppm
Response Time	20 seconds

Temperature

Sensor Type	Thermistor
Range	0 to 60°C (32 to 140°F)
Accuracy	±0.5°C (±1.0°F)
Resolution	0.1°C (0.1°F)
Response Time	30 seconds (90% of final value, air velocity at 2 m/s [400 ft/min])

Relative Humidity

Sensor Type	Thin-film capacitive
Range	5% to 95% RH
Accuracy ²	±3.0% RH
Resolution	0.1% RH
Response Time	20 seconds (for 63% of final value)

Percentage Outside Air

Range	0 to 100%
Resolution	0.1%

Operating Temperature	5 to 45°C (40 to 113°F)
Storage Temperature	-20 to 60°C (-4 to 140°F)

Logging Capability

Range	Model 7525 logs up to 30,300 data points with key (3) measured parameters enabled
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Time Constant	1 sec, 5 sec, 10 sec, 20 sec, 30 sec (user selectable)
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Log Intervals	1 second up to 1 hour (user selectable)
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Meter Dimensions

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

Probe Dimensions

Length 17.8 cm (7.0 in.)
Diameter 1.9 cm (0.75 in.)



¹Accuracy with probe at 25°C (77°F). Add uncertainty of ±0.36%/°C (±0.2%/°F) away from calibrated temperature.

²Accuracy with probe at 25°C (77°F). Add uncertainty of ±0.2% RH/°C (±0.1% RH/°F) away from calibrated temperature.

INCLUDED ITEMS:

Instrument Hard carrying-case (4) AA alkaline batteries Operation and service manual
NIST calibration certificate