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Indoor Air Quality Meters

TSI IAQ-Calc™ Models 7515, 7525, 7535, and 7545

TSI's IAQ-Calc Meters are outstanding instruments for investigating and monitoring indoor air quality (IAQ). The Model 7515 is a cost-effective meter for carbon dioxide (CO_2) measurements. The Model 7535 adds data logging of CO_2. The Models 7525 and 7545 simultaneously measures and data logs multiple parameters. The Model 7525 measures CO_2, temperature, humidity, calculates dew point, wet bulb temperature, and % outside air. The Model 7545 adds carbon monoxide (CO).

FEATURES

- Low-drift NDIR CO_2 sensor for stable, accurate readings
- Sampling function records multiple point measurements
- Ergonomic, over-molded case design

Models 7525 and 7545

- Temperature and relative humidity measurements help determine thermal comfort
- Calculates % outside air from either CO_2 or temperature
- Directly calculates dew point and wet bulb temperatures
- Electrochemical sensor measures CO (Model 7545)
- Models 7525 and 7545 display up to three parameters, Models 7515 and 7535 display CO_2

Data Logging – Models 7525, 7535, and 7545

- TSI LogDat2™ software permits easy transfer of data to a computer
- Data can be reviewed on-screen, or downloaded to a computer for easy report generation
- Statistics function displays average, maximum and minimum values, and the number of recorded samples

APPLICATIONS

- **Conduct IAQ evaluations**
- **Verify building HVAC system performance**
- **Examine building IAQ conditions to optimize worker productivity**
- **Comply with regulations and guidelines**

Model 7545

CALL GEOTECH TODAY (800) 833-7958

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SPECIFICATIONS

CO_2

Sensor Type	Dual-wavelength NDIR (non-dispersive infrared)
Range	0 to 5000 ppm
Accuracy[1]	±3.0% of reading or ±50 ppm, whichever is greater
Resolution	1 ppm
Response Time	20 seconds

Models 7525 and 7545

Temperature:	
Sensor Type	Thermistor
Range	32° to 140°F (0° to 60°C)
Accuracy	±1.0°F (±0.6°C)
Resolution	0.1°F (0.1°C)
Response Time	30 seconds (90% of final value, air velocity at 400 ft/min [2 m/s])
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)
% Outside Air:	
Range	0 to 100%
Resolution	0.1%

Model 7545 CO

Sensor Type	Electro-chemical
Range	0 to 500 ppm
Accuracy	±3.0% of reading or ±3 ppm, whichever is greater
Resolution	0.1 ppm
Response Time	<60 seconds to 90% step change

Temperature Environment

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

Models 7525, 7535 and 7545 Logging Capability

Ranges:	
Model 7525	Logs up to 30,300 data points with key (3) measured parameters enabled
Model 7535	Logs up to 40,300 data points with key (1) measured parameters enabled
Model 7545	Logs up to 26,900 data points with key (4) measured parameters enabled
Time Constant:	1 sec, 5 sec, 10 sec, 20 sec, 30 sec (user selectable)
Log Intervals:	1 second up to 1 hour (user selectable)

Dimensions

Meter (All models):	3.3" x 7.0" x 1.8" (8.4cm x 17.8cm x 4.4cm)
Model 7515 Probe:	
Length	2.75" (7.0cm)
Diameter	0.75" (1.9cm)
Models 7525, 7535, and 7545 Probe:	
Length	7.0" (17.8cm)
Diameter	0.75" (1.9cm)

Weight with Batteries

0.6 lbs. (0.27 kg)

Power Requirements

Model 7515	Four AA-size batteries
Models 7525, 7535, 7545	Four AA-size batteries or AC adapter

[1] At 77°F (25°C). Add uncertainty of ±0.2%/°F (±0.36%/°C) away from calibrated temperature.

[2] At 77°F (25°C). Add uncertainty of ±0.03% RH/°F (±0.05% RH/°C) away from calibrated temperature.

Specifications subject to change without notice.

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