# IAQ-CALC™ INDOOR AIR QUALITY METERS MODEL 7515, 7525, & 7545

TSI IAQ-Calc<sup>TM</sup> Meters are outstanding instruments for investigating and monitoring indoor air quality (IAQ). Model 7515 is a cost-effective meter for carbon dioxide ( $CO_2$ ) measurements. Models 7525 and 7545 simultaneously measure and data log multiple parameters. Model 7525 measures  $CO_2$ , temperature, humidity, and calculates dew point, wet bulb temperature, and percentage outside air. Model 7545 adds detection of carbon monoxide (CO).

#### Applications

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

#### Features and Benefits - All Models

- + Low-drift NDIR CO<sub>2</sub> sensor for stable, accurate readings
- + Sampling function records multiple point measurements
- + Ergonomic, overmolded case design

#### Models 7525 and 7545

- + Temperature and relative humidity measurements help determine thermal comfort
- + Calculates percentage outside air from either CO<sub>2</sub> or temperature
- + Directly calculates dew point and wet bulb temperatures
- + Electrochemical sensor measures CO (Model 7545)
- + Displays up to three parameters
- + TSI LogDat2<sup>™</sup> 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

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## SPECIFICATIONS

## IAQ-CALC<sup>™</sup> INDOOR AIR QUALITY METERS MODELS 7515, 7525 & 7545

#### **CO<sub>2</sub>** Sensor Type

Range Accuracy<sup>1</sup>

Resolution

Response Time

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

#### Temperature (Models 7525 and 7545)

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

#### Relative Humidity (Models 7525 and 7545)

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

#### Percentage Outside Air (Models 7525 and 7545) Range 0 to 100%

0.1%

Range Resolution

#### CO (Model 7545 only)

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

Resolution Response Time

## **Operating Temperature** 40 to 113°F (5 to 45°C)

#### **Storage Temperature**

-4 to 140°F (-20 to 60°C)

#### Logging Capability (Models 7525 and 7545) Pangos Model 7525 logs up to 20 200 data points

Ranges

Time Constant Log Intervals

Flodel / 525 logs up to 50,500 data politis
with key (3) measured parameters enabled
Model 7545 logs up to 26,900 data points
with key (4) measured parameters enabled
1 sec, 5 sec, 10 sec, 20 sec, 30 sec
(user selectable)
1 second up to 1 hour (user selectable)

#### Meter Dimensions (all models)

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

#### Probe Dimensions (Model 7515)

Length	2.75 in. (7.0 cm)
Diameter	0.75 in. (1.9 cm)

7515 7525 7545 CO., + $^{+}$ +CO + Temperature + + Humidity + + + Percentage outside air + Dew point + + Wet bulb temperature + + Data logging/downloading + + + + Statistics  $^{+}$ Review data + + Certificate of Calibration + + +

 $^1$  Accuracy with probe at 77°F (25°C). Add uncertainty of  $\pm 0.2\%/^\circ$ F ( $\pm 0.36\%/^\circ$ C) away from calibrated temperature.  $^2$  Accuracy with probe at 77°F (25°C). Add uncertainty of  $\pm 0.1\%$  RH/°F ( $\pm 0.2\%$  RH/°C) away from calibrated temperature.

Specifications are subject to change without notice.

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## Probe Dimensions (Models 7525 and 7545) Length 7.0 in. (17.8 cm) Diameter 0.75 in. (1.9 cm)

Weight (with batteries) 0.6 lbs (0.27 kg)

#### **Power Requirements**

Model 7515 Models 7525 and 7545

Four AA-size batteries Four AA-size batteries or AC adapter

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