

# Q-TRAK™ Plus IAQ Monitor



Providing a comfortable, safe and healthy indoor environment is an increasingly important concern. Good air quality increases concentration and productivity. It can also reduce lost days due to absence. Managing indoor air just makes sense. TSI's Q-TRAK Plus IAQ Monitor provides quick, accurate information to assess key IAQ parameters.

### Accurate Results

The Q-TRAK Plus monitor's state-of-the-art sensors and large, easy-to-read graphics allow real-time, simultaneous display of temperature, relative humidity, CO<sub>2</sub> and CO. The user can even review previously stored data without interrupting a test in progress. The Q-TRAK Plus also provides key reference measurements like dew point, wet bulb and percent outside air for ventilation calculations.

### Data Collection and Reporting

Expanded data logging capacity allows user-selectable logging intervals and start/stop times. During unattended operation, the Q-TRAK Plus will store up to 33 days of data collected at one-minute intervals. Data can be quickly downloaded for in-depth analysis and reporting using the provided TRAKPRO™ Data Analysis Software. The user can also perform single-point tests for quick building surveys and review stored data on-screen.

### Easy to Use

The Q-TRAK Plus features a menu-driven user interface for easy operation. On-screen prompts and step-by-step instructions guide the user through operation and field calibration. The Q-TRAK Plus also features an adjustable hand strap for secure one-handed operation and a lock-out switch to prevent tampering during unattended use.

## Specifications

### Models 8552 Q-TRAK Plus and 8554 Q-TRAK Plus with CO

<b>CO<sub>2</sub></b>		<b>Operating Temperature</b>	41 to 113°F (5 to 45°C)
Sensor Type	Non-dispersive infrared (NDIR)	<b>Storage Temperature</b>	-4 to 140°F (-20 to 60°C)
Range	0 to 5,000 ppm	<b>Data Logging</b>	48,671 data points (up to 33 days of CO, CO <sub>2</sub> , temperature, and humidity once/minute), 440 separate single data points (sample mode)
Accuracy	±(3% of reading +50 ppm) <sup>1</sup>	<b>Logging Interval</b>	Adjustable from 1 second to 1 hour
Resolution	1 ppm	<b>External Dimensions</b>	4.2 in. × 7.2 in. × 1.5 in. (107 mm × 183 mm × 38 mm)
Response Time	20 seconds <sup>2</sup>	<b>Weight (with batteries)</b>	1.3 pounds (0.59 kg)
<b>Temperature</b>		<b>Serial Interface</b>	RS-232 9600 baud
Sensor Type	Thermistor	<b>Power</b>	
Range	32 to 122°F (0 to 50°C)	AC	AC adapter (7.2 VDC, 320 mA)
Accuracy	±1.0°F (0.6°C)	<b>Battery</b>	Four AA-size batteries (included)
Resolution	0.1°F (0.1°C)	<b>Battery Run-time</b>	20 hours with alkaline batteries
Response Time	30 seconds <sup>3</sup>		
Displayed Units	°F or °C (user-selectable)		
<b>Humidity</b>		<b>Model</b>	<b>Description</b>
Sensor Type	Thin-film capacitive	8552	Q-TRAK Plus IAQ Monitor and accessories includes: Carrying Case, Probe Stand, Alkaline Batteries, TRAKPRO Software, Computer Cable, Calibration Certificate, Calibration Collar, Operation and Service Manual, AC Adapter and Two-Year Warranty
Range	5 to 95% RH	8554	Q-TRAK Plus Model 8552 with CO Sensor
Accuracy	±3% RH <sup>4</sup>		
Resolution	0.1% RH		
Response Time	20 seconds <sup>3</sup>		
<b>CO</b>			
Sensor Type	Electro-chemical		
Range	0 to 500 ppm		
Accuracy	±3% of reading or 3 ppm, whichever is greater <sup>5</sup>		
Resolution	0.1 ppm		
Repeatability	±2% of reading		
Response Time	<60 sec to 90% of final value		

<sup>1</sup> At 77° F (25°C). Add uncertainty of ±0.2%/°F (0.36%/°C) for change in temperature.

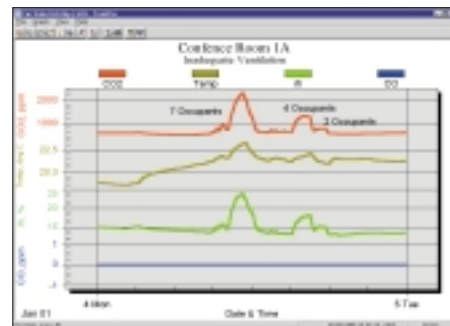
<sup>2</sup> For 63% of final value for 500 ppm step change.

<sup>3</sup> For 90% of final value at an air velocity of 2 m/s.

<sup>4</sup> Includes ±1% hysteresis.

<sup>5</sup> At calibration temperature. Add uncertainty of ±0.28%/°F (0.5%/°C) for change in temperature.

Specifications are subject to change without notice.



Easy-to-use TRAKPRO™ Data Analysis Software stores, organizes and reports test results.



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