

FIELD Environmental Instruments

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TSI

Q-Trak
Indoor Air Quality Monitor

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800-393-4009



The Q-TRAK with CO Model 8551 monitor measures carbon dioxide, carbon monoxide, temperature and humidity all within a single probe.

This easy-to-use, hand-held instrument provides real-time measurements and can log data unattended over an extended period of time. Advanced logging modes allow you to program the start time, test duration, sampling frequency and other parameters. For example, you can program the Q-TRAK IAQ Monitor to log data once per minute for ten full days. The Q-TRAK operates for over 13 hours on four AA batteries (included), or an AC adapter (included) offers continuous, unattended operation.

The Q-TRAK IAQ monitor comes with TRAKPRO™ Data Analysis Software for Windows®. TRAKPRO software allows you to program the Q-TRAK for custom data logging sessions, download the data into your PC and create, view and print presentation quality charts illustrating how indoor air quality changes over time.

SPECIFICATIONS

Carbon Dioxide

Sensor type: Non-Dispersive Infrared (NDIR)
Range: 0 to 5000 ppm
Accuracy: $\pm 3\%$ of reading, ± 50 ppm
Resolution: 1 ppm
Response time: 20 seconds

Temperature

Sensor type: Thermistor
Range: 32 to 122°F (0 to 50°C)
Accuracy: $\pm 1.0^\circ\text{F}$ (0.6°C)
Resolution: 0.1°F (0.1°C)
Response time: 120 seconds
Displayed units: °F or °C (user-selectable)

Humidity

Sensor type: Thin-film capacitive
Range: 5 to 95% RH
Accuracy: $\pm 3\%$ RH
Resolution: 0.1% RH
Response time: 20 seconds

CO (Model 8551 only)

Sensor type: Electrochemical
Range: 0-500 ppm
Accuracy: $\pm 3\%$ of reading or 3 ppm, whichever is greater
Resolution: 1 ppm
Repeatability: $\pm 2\%$ of reading
Response time: Less than 60 sec to 90% of final value

Instrument Temperature Range

Operating range: 41 to 113°F (5 to 45°C)
Storage range: -4 to 140°F (-20 to 60°C)

Display Time Constant

Adjustable from 2 to 60 seconds

Data Logging

63,000 data points
(10 days of logging CO, CO₂, temperature, and humidity once/min)
Logging Interval: Adjustable from 1sec to 1 hour

Physical

External dimensions: 4.2 in x 7.2 in x 1.5 in
(107 mm x 183 mm x 38 mm)
Probe length:
Model 8551 6.5 in (16.5 cm)
Probe diameter 0.75 in (1.9 cm)
Weight (w/ batteries): 1.3 pounds (0.59 kg)
Display: 4-digit LCD, 0.6 in (15 mm) digit height

Serial Interface

RS-232, 1200 baud

Power

AC: AC adapter (included)
Battery: Four AA-size batteries (included)
Battery run-time: 13.5 hours with Alkaline batteries

Warranty

2 years on parts and labor

Computer requirements for TRAKPRO Data Analysis Software

Operating system: Windows® 3.x
Microprocessor: 386 or higher
Memory: 4 MB or more
Disk drives: Hard disk drive; 3.5" or 5.25" floppy disk
Monitor: VGA or higher resolution

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