



Knowledge Beyond Measure.

# Q-Trak™ XP Indoor Air Quality Monitor

Model 7585



**The Q-Trak™ XP Indoor Air Quality Monitor Model 7585 combines multiple gas and particle measurements into a single lightweight, handheld instrument that is easy to use, configure and calibrate in the field.**

Designed for IAQ and industrial hygiene professionals, the Q-Trak XP™ Indoor Air Quality Monitor can perform a wide range of indoor air quality assessments. The powerful, compact multi-sensor module is equipped to measure up to 20 IAQ parameters. Export data in a single file for easy graphing and analysis.

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## Features and Benefits

- Simultaneously measures and logs up to 20 IAQ parameters, including mass concentration and gas — in one instrument
- Measures PM1, PM2.5, PM10 size fractions and particle concentration
- Accommodates up to 6 optional, pre-calibrated gas sensors
- Built-in % of outdoor air workflow
- Field calibration and replacement of sensors, minimizing downtime
- Monitor temperature and relative humidity with wet bulb and dew point calculations
- Real-time temperature and barometric pressure density compensation for VOC and CO<sub>2</sub>
- Large touch-screen with intuitive navigation
- Export data remotely with Wi-Fi connectivity

## Ideal For

- Commercial and office buildings
- Schools and universities
- Hospitals and healthcare facilities
- Public buildings and shopping centers
- Transportation hubs (airports, bus and train depots)



### TrakPro™ Ultra Software

The Q-Trak™ XP Indoor Air Quality Monitor includes the new TrakPro™ Ultra software. From the dashboard of this new software, users can connect directly to the instrument, to download and graph data for analysis.

### Data Collection and Reporting

Expanded data logging capacity of the Q-Trak™ XP Indoor Air Quality Monitor coupled with the included TrakPro™ Data Analysis Software provides the capabilities to work effectively and efficiently as you move from data collection to report generation.

The Q-Trak XP Indoor Air Quality Monitor can store over 100 days of data collected at one-minute log intervals. TrakPro Ultra allows for seamless transfer to your PC, so stored data can be recalled, reviewed on screen, and downloaded for data analysis, graphing and exporting for building reports. This software is useful for analyzing long term, unattended data logging studies common in IAQ investigations.

Wi-Fi wireless connection connects the TrakPro Ultra software on your PC directly to the Q-Trak XP Indoor Air Quality Monitor or via a local network to capture and download data remotely.

- Simple and fast data transfer / download from Q-Trak XP Indoor Air Quality Monitor to PC
- Review and graph multiple parameters to investigate trends
- User-define graph parameters for data analysis
- Review data charts of defined parameters
- Graph creation for generating reports
- Instrument programming



## Gas Sensor Options

The Q-Trak™ XP Indoor Air Quality Monitor Model 7585 can be configured to monitor a variety of gases. A total of 6 sensors can be installed and used at one time, with the ability to mix-and-match. Please note, the Model 7585 kit includes one carbon dioxide sensor.

All sensors are pre-calibrated and include a certificate of calibration.



### Carbon Dioxide Sensor (CO<sub>2</sub>) - 801399

Sensor Type	NDIR (Nondispersive Infrared)
Range	0 - 5000 ppm
Accuracy <sup>1</sup>	± 50 ppm
Resolution	1 ppm
Response Time (t90)	< 40s @ 20°C ambient

### VOC Sensor (ppb) - 801408

Sensor Type	PID (Photo Ionization Detector)
Range	0 - 20,000 ppb
Resolution	10 ppb
Response Time (t90)	<3 seconds

### Formaldehyde Sensor (H<sub>2</sub>CO) - 801409

Sensor Type	Electrochemical
Range	0-10 ppm
Accuracy	± 1 ppm
Resolution	0.01 ppm
Response Time (t90)	< 90 seconds

### Chlorine Sensor (CL<sub>2</sub>) - 801400

Sensor Type	Electrochemical
Range	0-20 ppm
Accuracy	± 0.3 ppm
Resolution	0.01 ppm
Response Time (t90)	< 60 seconds from zero to 10ppm

### Nitrogen Dioxide Sensor (NO<sub>2</sub>) - 801405

Sensor Type	Electrochemical
Range	0-20 ppm
Accuracy	± 0.5 ppm
Resolution	0.01 ppm
Response Time (t90)	< 80 seconds from zero to 2ppm

### Hydrogen Sulfide Sensor (H<sub>2</sub>S) - 801402

Sensor Type	Electrochemical
Range	0-50 ppm
Accuracy	± 0.5 ppm
Resolution	0.01 ppm
Response Time (t90)	< 60 seconds from zero to 2ppm

### Carbon Monoxide Sensor (CO) - 801401

Sensor Type	Electrochemical
Range	0-400 ppm
Accuracy	± 2% of reading ± 1 ppm
Resolution	0.1 ppm
Response Time (t90)	< 30 seconds from zero to 10ppm

### VOC Sensor (ppm) - 801407

Sensor Type	PID (Photo Ionization Detector)
Range	0-2000 ppm
Resolution	0.1 ppm
Response Time (t90)	<3 seconds

### Ozone Sensor (O<sub>3</sub>) - 801406

Sensor Type	Electrochemical
Range	0-20 ppm
Accuracy	± 0.3 ppm
Resolution	0.01 ppm
Response Time (t90)	< 80 seconds from zero to 1ppm

### Ammonia Sensor (NH<sub>3</sub>) - 801403

Sensor Type	Electrochemical
Range	0-100
Accuracy	± 1 ppm
Resolution	0.1 ppm
Response Time (t90)	< 45 seconds

### Nitric Oxide Sensor (NO) - 801404

Sensor Type	Electrochemical
Range	0-20 ppm
Accuracy	± 0.2 ppm
Resolution	0.1 ppm
Response Time (t90)	< 25 seconds from zero to 2ppm

t90: Time to achieve 90% of the actual concentration  
<sup>1</sup> CO<sub>2</sub> accuracy based on density correction activated



Inside the multi-sensor module

## Specifications

# Q-Trak™ XP Indoor Air Quality Monitor Model 7585

The Q-Trak™ XP Indoor Air Quality Monitor Model 7585 arrives from the factory with the following preset technical specifications.

### Particles

Sensor Type	Optical Particle Counter (OPC)
Particulate Mass (PM)	PM1.0, PM2.5, PM10
Range	0 to 500 µg/m <sup>3</sup>
Accuracy	±10 µg/m <sup>3</sup> (0 - 100 µg/m <sup>3</sup> ), ±10% of reading 100 - 500 µg/m <sup>3</sup>
PM Resolution	1 µg/m <sup>3</sup> , 0.001 mg/m <sup>3</sup>
PM Units	µg/m <sup>3</sup> , mg/m <sup>3</sup>

### Particle Concentration

(PC sizes in microns (µm))	PC0.3, PC0.5, PC1.0, PC2.5, PC5.0, PC10.0
PC Resolution	0.01/cm <sup>3</sup> , 1/ft <sup>3</sup> , 1/L
PC Units	#/cm <sup>3</sup> , #/ft <sup>3</sup> , #/L
Response Time	<10 seconds

### Carbon Dioxide

Sensor Type	Nondispersive Infrared (NDIR)
Range	0 - 5000 ppm
Accuracy	± 50 ppm
Resolution	1 ppm
Response Time (t90)	< 40s @ 20° C ambient

### Temperature

Range	32 - 140°F (0 - 60° C)
Accuracy	± 1.0°F (0.5° C)
Resolution	0.1°F (0.1° C)
Response Time (t90)	< 15 seconds to 90% of final value

**This instrument is not designed for confined spaces in which respirators may be required, or in hazardous and/or explosive environments.**

Specifications are subject to change without notice.

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### Relative Humidity

Sensor Type	Capacitance
Range	0 - 100% RH
Accuracy	± 3% RH
Resolution	0.1 % RH
Response Time (t63)	8 Seconds to 63% of final value

### Barometric Pressure

Range	7.7 - 37.2 in Hg (196.0 - 945.0 mm Hg)
Accuracy	±0.12 in Hg (±3.0 mm Hg)
Resolution	0.01 in Hg (0.1 mm Hg)
Response Time (t63)	>2 seconds to 63% of final value

### Operating Parameters

Logging Capability	73,000,000 data points
Operating Temperature	41 - 104° F (5 - 40° C)
Storage Temperature	-4 - 140° F (-20 - 60° C)
Meter Dimensions	3.8 in. × 8.3 in. × 2.1 in. (9.7 cm × 21.1 cm × 5.3 cm)
Weight with Batteries	1.2 lbs./0.55 kg
Power Requirements	Li-ion rechargeable battery pack or universal AC adapter - both included
Languages Supported	English, German, French

### The Q-Trak™ XP Indoor Air Quality Monitor Model 7585 kit includes:

Handheld unit with multi-sensor IAQ module (includes sensors for temperature, relative humidity, barometric pressure, particle mass concentration, plus open slots for six different types of gases)

- Co<sub>2</sub> Gas Sensor
- Carrying Case
- Communication Cable
- Power Supply
- Calibration Certificate
- Gas Calibration Cap
- Trakpro Ultra Software (Download)
- Li-Ion Battery Pack
- Manual

### Optional Accessories

Specify	Description
801430	Multi-Sensor IAQ Module with PM 2.5, Temperature, Relative Humidity, Barometric Pressure, and 6 Open Sensor Slots for Expansion
800125	Battery Cover with Tripod Mount
800128	Q-Trak XP Tabletop Tripod
800129	Q-Trak XP Battery Cover with Tripod Mount and Tabletop Tripod



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