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_2
- 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_2) - 801399	
Sensor Type	NDIR (Nondispersive Infrared)
Range	0 - 5000 ppm
Accuracy[1]	± 50 ppm
Resolution	1 ppm
Response Time (t90)	< 40s @ 20°C ambient

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 (ppb) - 801408	
Sensor Type	PID (Photo Ionization Detector)
Range	0 - 20,000 ppb
Resolution	10 ppb
Response Time (t90)	<3 seconds

VOC Sensor (ppm) - 801407	
Sensor Type	PID (Photo Ionization Detector)
Range	0-2000 ppm
Resolution	0.1 ppm
Response Time (t90)	<3 seconds

Formaldehyde Sensor (H_2CO) - 801409	
Sensor Type	Electrochemical
Range	0-10 ppm
Accuracy	± 1 ppm
Resolution	0.01 ppm
Response Time (t90)	< 90 seconds

Ozone Sensor (O^3) - 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

Chlorine Sensor (CL_2) - 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

Ammonia Sensor (NH^3) - 801403	
Sensor Type	Electrochemical
Range	0-100
Accuracy	± 1 ppm
Resolution	0.1 ppm
Response Time (t90)	< 45 seconds

Nitrogen Dioxide Sensor (NO_2) - 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

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

Hydrogen Sulfide Sensor (H_2S) - 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

t90: Time to achieve 90% of the actual concentration
[1] CO_2 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/m³
Accuracy	±10 µg/m³ (0 - 100 µg/m³), ±10% of reading 100 - 500 µg/m³
PM Resolution	1 µg/m³, 0.001 mg/m³
PM Units	µg/m³, mg/m³

Particle Concentration

(PC sizes in microns (µm))	PC0.3, PC0.5, PC1.0, PC2.5, PC5.0, PC10.0
PC Resolution	0.01/cm³, 1/ft³, 1/L
PC Units	#/cm³, #/ft³, #/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.

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_2 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

Specifications are subject to change without notice.

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