

# AQ EXPERT



## Portable Indoor Air Quality Monitor

Providing the latest in Monitoring & Data Logging for IAQ testing in Hospitals, Buildings, Schools, Labs, Clean Rooms, Airports, & more

- Multiple Parameters - Up to 11 (Customize to YOUR Needs)
- REAL-TIME Continuous Data-Logging
- PC Software & USB Included
- Large Internal Memory
- Li-Ion Rechargeable
- Easy to Use Menu System
- Wireless Remote Printer
- Portable w/ Swivel Handle
- Barometric Air Pressure
- Dual Temp TcK Inputs
- Optional Handheld Probe
- Active Internal Sampling Pump



CO<sub>2</sub>

CO

% RH

Temp

Barometric Pressure

VOC

O<sub>2</sub>

NO<sub>2</sub>

Ozone

SO<sub>2</sub>

H<sub>2</sub>S

NO

“Built with Quality in Mind”



Real-time Data Logging for Graphs, data review, IAQ reports



Wireless Communications with Computer & Remote Printer



Light Weight, Durable, and Easy to Transport Design

E Instruments International

[www.E-Inst.com](http://www.E-Inst.com)

P: 215-750-1212 F: 215-750-1399 A: 402 Middletown Blvd, Ste 216 Langhorne, PA 19047

# AQ EXPERT



## Applications



CO<sub>2</sub>, CO, % RH, Temp, VOC, O<sub>2</sub>, NO, NO<sub>2</sub>, Ozone, SO<sub>2</sub>, H<sub>2</sub>S, Barometric Pressure

## Features

### Custom to Your Application

Up to 11 different parameters and gases to meet the needs of most air quality analysis

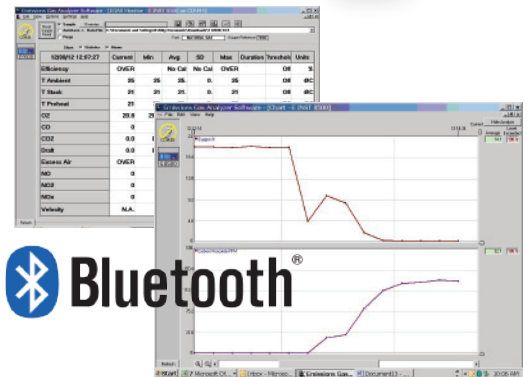
### REAL-TIME Data Logging

Save and graph using USB or wireless Bluetooth to a PC

NO<sub>2</sub> O<sub>3</sub>  
CO  
SO<sub>2</sub>

VOC

CO<sub>2</sub>



Bluetooth

Real-time Software

### Easy Calibration

Built-in menu driven calibration procedure

### Made in USA

Designed and manufactured in the USA



O<sub>2</sub>

H<sub>2</sub>S

% RH

CO

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## Specifications

Parameter	Sensor	Range	Res.	Accuracy
CO <sub>2</sub>	NDIR	0 - 5,000 ppm	10 ppm	±2% rdg. ±10 ppm
CO <sub>2</sub>	NDIR	0 - 20%	0.1%	±3% rdg.
CO	Electrochemical	0 - 200 ppm	0.1 ppm	±2 ppm rdg. ±0.2 ppm
CO	Electrochemical	0 - 2000 ppm	1 ppm	<300 ppm, 10 ppm to 2000 ppm, 4%
% RH	Thin Film Capacitive	0-100% RH	1% RH	±2% RH
Temperature Ambient	Pt100	-40 - 125°C	0.1°C	± 0.4°C (0-60 C)
VOCs	PID	0 - 20 ppm	1 ppb	10 % rdg. ±20 ppb
VOCs	PID	0 - 200 ppm	10 ppb	10 % rdg. ±50 ppb
O <sub>2</sub>	Electrochemical	0 - 25%	0.1%	±0.1% vol
NO <sub>2</sub>	Electrochemical	0 - 20 ppm	0.1 ppm	±0.5 ppm of rdg.
NO <sub>2</sub>	Electrochemical	0 - 1000 ppm	1 ppm	<100 ppm, 5 ppm to 1000 ppm, 4%
Ozone	Electrochemical	0 - 5 ppm	1 ppb	
H <sub>2</sub> S	Electrochemical	0 - 100 ppm	1 ppm	±4% of rdg. ±0.5% ppm
NO	Electrochemical	0 - 250 ppm	0.1 ppm	±2 ppm of rdg.
NO	Electrochemical	0 - 2000 ppm	1 ppm	<100 ppm, 5 ppm to 2000 ppm, ±4%
SO <sub>2</sub>	Electrochemical	0 - 20 ppm	0.1 ppm	±0.5 ppm of rdg.
SO <sub>2</sub>	Electrochemical	0 - 2000 ppm	1 ppm	<100 ppm, ±5 ppm to 2000 ppm, ±4%
Barometric Pressure	Solid State	260 - 1260 mbar	1 mbar	± 2 mbar
Temperature Type K T1 & T2	Tc K	0 - 2000°F (0 - 1100°C)	1°F (1°C)	5°F (3°C) or 2% of rdg
Air Velocity	Calculated	0-300 ft/sec	1 ft/sec	
Relative Humidity	Solid State	0 - 100%	0.1%	±2% RH

## Accessories



Wireless Bluetooth Printer



AQ Expert Probe



Air Velocity w/ Pitot Tube



AQ Expert Case

# AQ EXPERT



## AQ EXPERT ORDERING CODE

Part Number: **EXPERT-\_\_\_-\_\_\_-\_\_\_-\_\_\_-\_\_\_**

(Example: EXPERT-1-C1-V1 = CO2 (0-5000 ppm), Temp, RH, Barometric Pressure, CO (0-20 ppm), VOC (0-20 ppm))

### AQ EXPERT Base Unit Including:

- CO2, Temp, RH (choice of one (1) of the CO2 sensor ranges below)
- Barometric Pressure, Wet Bulb & Dew Point
- Continuous Internal Sampling Pump
- REAL-TIME data logging
- PC Software (with USB Cable)
- Internal Bluetooth & External Dongle
- Dual-channel TcK (Diff. Temp)
- Differential Pressure
- Operating Manual
- Swivel Handle for Easy Transport
- Li-Ion Battery & AC Charger
- Factory Calibration Certificate



### ADD UP TO 6 (SIX) ADDITIONAL SENSORS FROM THE LIST BELOW:

PART NUMBER	DESCRIPTION
Expert-1	AQ Expert Base Unit w/ CO2 Range: 0-5000 ppm
Expert-2	AQ Expert Base Unit w/ CO2 Range: 0-20% ppm
-C1	CO Sensor (0-200 ppm)
-C2	CO Sensor (0-2000 ppm)
-V1	VOC Sensor (0-20 ppm)
-V2	VOC Sensor (0-200 ppm)
-N1	NO2 Sensor (0-20 ppm)
-N2	NO2 Sensor (0-1000 ppm)
-Z	O3 Sensor
-H	H2S Sensor
-O	O2 Sensor
-S1	SO2 Sensor (0-20 ppm)
-S2	SO2 Sensor (0-2000 ppm)
-X1	NO Sensor (0-250 ppm)
-X2	NO Sensor (0-2000 ppm)

### OPTIONAL ACCESSORIES:

PART NUMBER	DESCRIPTION
E858140	Protective Carrying Case
E85AACSF13	12" Probe, 10' Dual Hose
E852110	Bluetooth Wireless Printer
BB610032	12" Pitot Tube (Gas Velocity)
BB610033	36" Pitot Tube (Gas Velocity)
AACKP01	Differential Pressure Kit



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