

SI-AQ EXPERT

Portable Air Quality Monitor Providing the Latest in Monitoring & Data Logging for IAQ Testing in Buildings, Hospitals, Universities, Labs, Clean Rooms, Airports and More



Accurate / Reliable / Robust / Fast

- Customize Up To 7 Gases
- Temp., %RH, & Barometric Pressure Included
- Real-Time Continuous Data Logging
- Active Internal Sampling Pump
- Large Internal Memory (2,000 Tests)
- Wireless Communication with PC & Printer
- Portable with Swivel Handle



Select Up to **7 Gases** in Total:
TVOCs, CO₂, CO, Formaldehyde, NO₂,
NO, O₂, O₃ (Ozone), SO₂, H₂S



Long Lasting Rechargeable
Battery & AC Charger



Light Weight, Durable, &
Easy to Operate



Real Time PC Software
& USB Cable

PT. TOTAL ENVIRO SOLUSINDO

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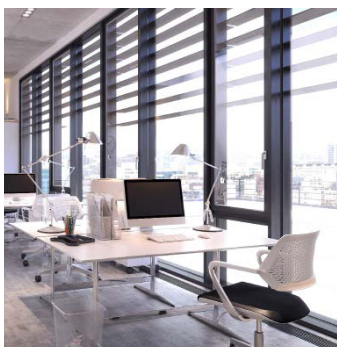
SI-AQ EXPERT



Applications



Airports



Offices



Laboratories

Customizable for Your Application

Up to 7 different toxic gases to meet the needs of most air quality analyses

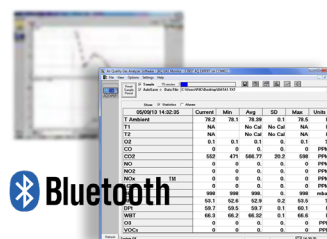
REAL-TIME Data Logging

Save & graph data via USB or wireless Bluetooth® to your PC or tablet

Easy Calibration

Built-in menu driven calibration procedure

CO_2
 CO CH_2O
 SO_2
 O_2 NO
 H_2S
 VOCs $\%\text{RH}$
 NO_2



Si-AQ PC Software: Real-Time Data Logging Software

Total Enviro Solusindo

TERSEDIA :

TOTAL ENVIRO SOLUSINDO

Parameter	Sensor	Range	Resolution	Accuracy	Optional Accessories
Ambient Temperature	Pt100	-40 to 257 °F -40 to 125 °C	0.1 °F 0.1 °C	±0.4 °F (32 - 140 °F) ±0.4 °C (0 - 60 °C)	 Sampling Probe (Si-AQ Probe with Hose)
Relative Humidity	Capacitive	5 - 95 %	0.1 %	±2 % RH	
Barometric Pressure	Piezoresistive	260 - 1260 mbar	1 mbar	±2 mbar	
CO ₂	NDIR	0 - 5,000 ppm	1 ppm	±2 % rdg ±10 ppm	
CO ₂ High	NDIR	0 - 20 %	0.1 %	±3 % rdg	
CO	Electrochemical ¹	0 - 200 ppm	0.1 ppm	±4 % rdg ±0.5 ppm	 Zero Filter for Calibration (Si-AQ VOC Zero Filter)
VOCs	PID	0 - 20,000 ppb 0 - 46,000 µg/m ³	1 ppb 1 µg/m ³	±10 % rdg ±20 ppb	
VOCs	PID	0 - 200 ppm 0 - 460 mg/m ³	1 ppm 1 mg/m ³	±10 % rdg ±2 ppm	
O ₂	Electrochemical	0 - 25 %	0.1 %	±0.1 % rdg	 Bluetooth® Printer (Si-AQ Bluetooth® Printer)
O ₃ (Ozone)	Electrochemical ^{2,3,4}	0 - 5,000 ppb	1 ppb	-	
H ₂ S	Electrochemical ¹	0 - 100 ppm	1 ppm	±4 % rdg ±0.5 ppm	
CH ₂ O (Formaldehyde)	Electrochemical ^{2,3}	0 - 10,000 ppb	1 ppb	±5 % rdg ±50 ppb	
NO	Electrochemical ¹	0 - 250 ppm	0.1 ppm	±4 % rdg ±0.5 ppm	
NO ₂	Electrochemical ^{1,4}	0 - 20 ppm	0.1 ppm	±4 % rdg ±0.5 ppm	
SO ₂	Electrochemical ^{1,4}	0 - 20 ppm	0.1 ppm	±4 % rdg ±0.5 ppm	 Moisture Exchange Tube for Calibration (Si-AQ Moisture Exchange)
Differential Pressure*	Piezoresistive	-40 inH ₂ O to 40 inH ₂ O -100 mbar to 100 mbar	0.1 inH ₂ O 0.1 mbar	±1 % rdg	
Temperature Type K T1	Tc K	0 - 2,000 °F 0 - 1,100 °C	1 °F 1 °C	5 °F / 3 °C or 2 % of rdg	 Pitot Tube for Air Velocity (Si-AQ Pitot Tube)
Air Velocity	Calculated	0 - 300 ft/sec 0 - 91 m/s	1 ft/sec 1 m/s	-	
Electromagnetic Compatibility	EN 61326-1, Portable Equipment				 Carrying Case (Si-AQ Expert Vinyl Case)

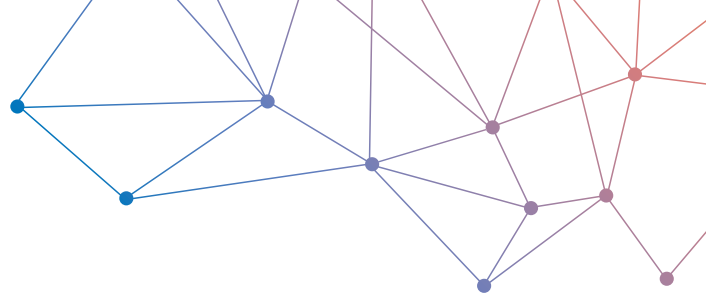
¹ Other ranges are available upon request

² Accuracy based on laboratory conditions

³ This sensor may have interference from H₂, CO, H₂S and other reducing gases such as alcohols

⁴ All three O₃, NO₂, & SO₂ sensors cannot concurrently be installed in one instrument

* Requires connection accessories, flexible tubes and connections available as option in the Si-AQ Kit Press. Diff.



SI-AQ EXPERT

Ordering Code

Part # EXPERT - _ _ _ _ _

Example: EXPERT - Si-AQ CO₂ Sensor (5000 ppm) -
Si-AQ CO Cell (0-200 ppm) - Si-AQ VOC Cell (20,000 ppb)
Ambient Temp, %RH, Barometric Pressure,
CO₂ (0-5,000 ppm), CO (0-200 ppm), VOC (0-20,000 ppb)



All Si-AQ EXPERT Kits Include:

• Ambient Temperature, % Relative Humidity
• Barometric Pressure, Wet Bulb & Dew Point
• Continuous Internal Sampling Pump
• REAL-TIME Data Logging
• PC Software with USB Cable
• Wireless Bluetooth® & External Dongle
• Dual-Channel TcK (Differential Temperature)
• Differential Pressure
• User manual
• Swivel Handle for Easy Transport
• Rechargeable Battery & AC Charger
• Factory Calibration Certificate

Add Up To Seven (7) Additional Sensors:

Si-AQ CO ₂ Sensor (5000 ppm)*	CO ₂ Sensor (0-5,000 ppm)
Si-AQ CO Cell (0-200 ppm)*	CO Sensor (0-200 ppm)
Si-AQ VOC Cell (20,000 ppb)	VOC Sensor (0-20,000 ppb)
Si-AQ VOC Cell (200 ppm)	VOC Sensor (0-200 ppm)
Si-AQ NO ₂ Cell (0-20 ppm)*	NO ₂ Sensor (0-20 ppm)**
Si-AQ O ₃ Cell (0-5 ppm)	O ₃ Sensor (0-5 ppm)**
Si-AQ H ₂ S Cell (0-100 ppm)*	H ₂ S Sensor (0-100 ppm)
Si-AQ O ₂ Cell (0-25%)	O ₂ Sensor (0-25%)
Si-AQ SO ₂ Cell (0-20 ppm)*	SO ₂ Sensor (0-20 ppm)**
Si-AQ NO Cell (0-250 ppm)*	NO Sensor (0-250 ppm)
Si-AQ CH ₂ O Cell (0-10 ppm)	CH ₂ O Sensor (0-10 ppm)

* Other ranges are available upon request

** The following sensors: O₃, NO₂, & SO₂ cannot concurrently be installed on one instrument

Optional Accessories:

Si-AQ Expert Vinyl case	Protective Carrying Case
Si-AQ VOC Zero Filter	Ambient Air Zero Filter
Si-AQ Moisture Exchange	Moisture Exchange Tube for Calibration
Si-AQ Probe with Hose	12" (300mm) Probe, 10' (3m) Dual Hose
Si-AQ Bluetooth® Printer	Bluetooth® Printer
Si-AQ Pitot Tube	12" (300 mm) Pitot Tube (Air Velocity)
Si-AQ Diff. Press. Kit	Differential Pressure Kit



Education



Hospitals