

# 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, CO<sub>2</sub>, CO, Formaldehyde, NO<sub>2</sub>,  
NO, O<sub>2</sub>, O<sub>3</sub> (Ozone), SO<sub>2</sub>, H<sub>2</sub>S



**Long Lasting Rechargeable  
Battery & AC Charger**



**Light Weight, Durable, &  
Easy to Operate**



**Real Time PC Software  
& USB Cable**

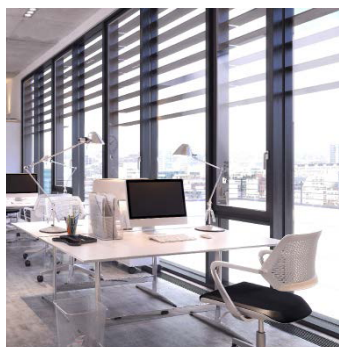
# SI-AQ EXPERT



## Applications



Airports



Offices



Laboratories

### Customizable for Your Application

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

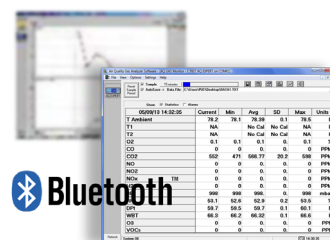
### REAL-TIME Data Logging

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

### Easy Calibration

Built-in menu driven calibration procedure

CO<sub>2</sub>  
CO CH<sub>2</sub>O  
SO<sub>2</sub>  
O<sub>2</sub> NO  
H<sub>2</sub>S  
VOCs %RH  
NO<sub>2</sub>



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

Find Quality Products Online at:

[www.GlobalTestSupply.com](http://www.GlobalTestSupply.com)

[sales@GlobalTestSupply.com](mailto:sales@GlobalTestSupply.com)

| Parameter                        | Sensor                           | Range                                                                    | Resolution                         | Accuracy                                     |
|----------------------------------|----------------------------------|--------------------------------------------------------------------------|------------------------------------|----------------------------------------------|
| Ambient Temperature              | Pt100                            | -40 to 257 °F<br>-40 to 125 °C                                           | 0.1 °F<br>0.1 °C                   | ±0.4 °F (32 - 140 °F)<br>±0.4 °C (0 - 60 °C) |
| Relative Humidity                | Capacitive                       | 5 - 95 %                                                                 | 0.1 %                              | ±2 % RH                                      |
| Barometric Pressure              | Piezoresistive                   | 260 - 1260 mbar                                                          | 1 mbar                             | ±2 mbar                                      |
| CO <sub>2</sub>                  | NDIR                             | 0 - 5,000 ppm                                                            | 1 ppm                              | ±2 % rdg ±10 ppm                             |
| CO <sub>2</sub> High             | NDIR                             | 0 - 20 %                                                                 | 0.1 %                              | ±3 % rdg                                     |
| CO                               | Electrochemical <sup>1</sup>     | 0 - 200 ppm                                                              | 0.1 ppm                            | ±4 % rdg ±0.5 ppm                            |
| VOCs                             | PID                              | 0 - 20,000 ppb<br>0 - 46,000 µg/m <sup>3</sup>                           | 1 ppb<br>1 µg/m <sup>3</sup>       | ±10 % rdg ±20 ppb                            |
| VOCs                             | PID                              | 0 - 200 ppm<br>0 - 460 mg/m <sup>3</sup>                                 | 1 ppm<br>1 mg/m <sup>3</sup>       | ±10 % rdg ±2 ppm                             |
| O <sub>2</sub>                   | Electrochemical                  | 0 - 25 %                                                                 | 0.1 %                              | ±0.1 % rdg                                   |
| O <sub>3</sub> (Ozone)           | Electrochemical <sup>2,3,4</sup> | 0 - 5,000 ppb                                                            | 1 ppb                              | -                                            |
| H <sub>2</sub> S                 | Electrochemical <sup>1</sup>     | 0 - 100 ppm                                                              | 1 ppm                              | ±4 % rdg ±0.5 ppm                            |
| CH <sub>2</sub> O (Formaldehyde) | Electrochemical <sup>2,3</sup>   | 0 - 10,000 ppb                                                           | 1 ppb                              | ±5 % rdg ±50 ppb                             |
| NO                               | Electrochemical <sup>1</sup>     | 0 - 250 ppm                                                              | 0.1 ppm                            | ±4 % rdg ±0.5 ppm                            |
| NO <sub>2</sub>                  | Electrochemical <sup>1,4</sup>   | 0 - 20 ppm                                                               | 0.1 ppm                            | ±4 % rdg ±0.5 ppm                            |
| SO <sub>2</sub>                  | Electrochemical <sup>1,4</sup>   | 0 - 20 ppm                                                               | 0.1 ppm                            | ±4 % rdg ±0.5 ppm                            |
| Differential Pressure*           | Piezoresistive                   | -40 inH <sub>2</sub> O to 40 inH <sub>2</sub> O<br>-100 mbar to 100 mbar | 0.1 inH <sub>2</sub> O<br>0.1 mbar | ±1 % rdg                                     |
| Temperature Type K T1            | Tc K                             | 0 - 2,000 °F<br>0 - 1,100 °C                                             | 1 °F<br>1 °C                       | 5 °F / 3 °C<br>or 2 % of rdg                 |
| Air Velocity                     | Calculated                       | 0 - 300 ft/sec<br>0 - 91 m/s                                             | 1 ft/sec<br>1 m/s                  | -                                            |
| Electromagnetic Compatibility    | EN 61326-1, Portable Equipment   |                                                                          |                                    |                                              |

<sup>1</sup> Other ranges are available upon request

<sup>2</sup> Accuracy based on laboratory conditions

<sup>3</sup> This sensor may have interference from H<sub>2</sub>, CO, H<sub>2</sub>S and other reducing gases such as alcohols

<sup>4</sup> All three O<sub>3</sub>, NO<sub>2</sub>, & SO<sub>2</sub> 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.

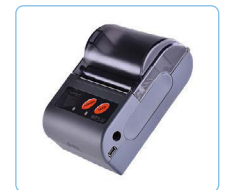
## Optional Accessories



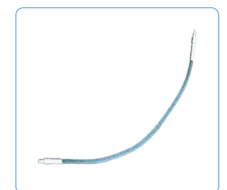
Sampling Probe  
(Si-AQ Probe with Hose)



Zero Filter for Calibration  
(Si-AQ VOC Zero Filter)



Bluetooth® Printer  
(Si-AQ Bluetooth® Printer)



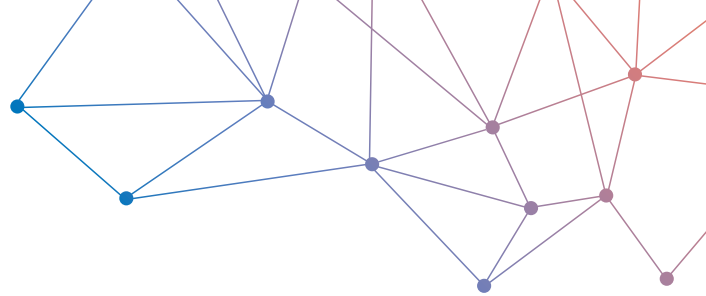
Moisture Exchange Tube  
for Calibration (Si-AQ  
Moisture Exchange)



Pitot Tube for Air Velocity  
(Si-AQ Pitot Tube)



Carrying Case  
(Si-AQ Expert Vinyl Case)



# SI-AQ EXPERT

## Ordering Code

Part # EXPERT - \_ \_ \_ \_ \_

Example: EXPERT - Si-AQ CO<sub>2</sub> Sensor (5000 ppm) -  
Si-AQ CO Cell (0-200 ppm) - Si-AQ VOC Cell (20,000 ppb)  
Ambient Temp, %RH, Barometric Pressure,  
CO<sub>2</sub> (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 <sub>2</sub> Sensor (5000 ppm)* | CO <sub>2</sub> 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 <sub>2</sub> Cell (0-20 ppm)*   | NO <sub>2</sub> Sensor (0-20 ppm)**  |
| Si-AQ O <sub>3</sub> Cell (0-5 ppm)      | O <sub>3</sub> Sensor (0-5 ppm)**    |
| Si-AQ H <sub>2</sub> S Cell (0-100 ppm)* | H <sub>2</sub> S Sensor (0-100 ppm)  |
| Si-AQ O <sub>2</sub> Cell (0-25%)        | O <sub>2</sub> Sensor (0-25%)        |
| Si-AQ SO <sub>2</sub> Cell (0-20 ppm)*   | SO <sub>2</sub> Sensor (0-20 ppm)**  |
| Si-AQ NO Cell (0-250 ppm)*               | NO Sensor (0-250 ppm)                |
| Si-AQ CH <sub>2</sub> O Cell (0-10 ppm)  | CH <sub>2</sub> O Sensor (0-10 ppm)  |

\* Other ranges are available upon request

\*\* The following sensors: O<sub>3</sub>, NO<sub>2</sub>, & SO<sub>2</sub> 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