



DATA SHEET

# SI-AQ VOC

**Handheld TVOCs Monitor for Air Quality Analysis in Industrial Safety, Environmental, Laboratories and More**



## Accurate / Reliable / Robust / Fast

- Dynamic PID TVOC Sensor:  
0 - 20,000 ppb or 0 - 200 ppm
- Temp., %RH, & Barometric Pressure Included
- Real-Time Data Logging
- Active Internal Sampling Pump
- Large Internal Memory (2,000 Tests)
- Protective Magnetic Rubber Boot
- Optional Wireless Printer
- Optional Handheld Probe



Select Up to 3 Gases in Total:  
TVOCs, CO<sub>2</sub>, CO, Formaldehyde, NO<sub>2</sub>,  
NO, O<sub>2</sub>, SO<sub>2</sub>, H<sub>2</sub>S



Long Lasting Rechargeable  
Battery & AC Charger



Light Weight & Durable



Si-AQ PC Software  
& USB Cable

Parameter	Sensor	Range	Resolution	Accuracy
Low Range VOC OR High Range VOC	PID	0 - 20,000 ppb 0 - 46,000 µg/m <sup>3</sup>	1 ppb 1 µg/m <sup>3</sup>	±10 % rdg ±20 ppb
Relative Humidity	Capacitive	5 - 95 %	0.1 %	±2 % RH
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)
Barometric Pressure	Piezoresis- tive	260 to 1,260 mbar	1 mbar	±2 mbar
Differential Pressure*	Piezoresis- tive	-40 inH <sub>2</sub> O to 40 inH <sub>2</sub> O -100 mbar to 100 mbar	0.1 inH <sub>2</sub> 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 % rdg
Air Velocity	Calculated	0 - 300 ft/sec 0 - 91 m/s	1 ft/sec 1 m/s	-
Electromagnetic Com- patibility	EN 61326-1, Portable Equipment			

#### All Si-AQ VOC Kits include:

- Temperature, %RH, Wet Bulb, Dew Point
- Barometric Pressure
- PC Software & USB Cable
- Real-Time Continuous Data Logging
- Bluetooth® Connectivity
- Protective Carrying Case
- Continuous Active Internal Sampling Pump
- Long Lasting Battery & AC Charger
- Factory Calibration Certificate
- Quick Start Guide

#### Optional Accessories



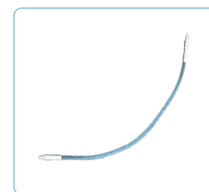
Sampling Probe  
(Si-AQ Probe with Hose)



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



Bluetooth® Printer  
(Si-AQ Bluetooth® Printer)



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

### Si-AQ VOC Ordering Code

**Example: Part #: VOC - Si-AQ VOC Cell (20,000 ppb) - Si-AQ CH<sub>2</sub>O Cell (0 - 10 ppm) - Si-AQ CO<sub>2</sub> Sensor (5000 ppm) = Low Range VOC, CH<sub>2</sub>O & CO<sub>2</sub>**

	Parameter	Sensor	Range	Resolution	Accuracy
Select Your VOC Range	Si-AQ VOC Cell (20,000 ppb) Low Range VOC	PID	0 - 20,000 ppb 0 - 46,000 µg/m <sup>3</sup>		
	Si-AQ VOC Cell (200 ppm) High Range VOC	PID	0 - 200 ppm 0 - 460 mg/m <sup>3</sup>		Accuracy
Optional Gas Sensor Upgrades  (Choose Up to Any 2)	Si-AQ CO <sub>2</sub> Sensor (5000 ppm) Carbon Dioxide (CO <sub>2</sub> ) <sup>1</sup>	NDIR	0 - 5,000 ppm	1 ppm	±2 % rdg ±10 ppm
	Si-AQ CO Cell (0 - 200 ppm) Carbon Monoxide (CO) <sup>1</sup>	EC <sup>2</sup>	0 - 200 ppm	0.1 ppm	±4 % rdg ±0.5 ppm
	Si-AQ CH <sub>2</sub> O Cell (0 - 10 ppm) Formaldehyde (CH <sub>2</sub> O) <sup>3,4</sup>	EC <sup>2</sup>	0 - 10,000 ppb	1 ppb	±5 % rdg ±50 ppb
	Si-AQ H <sub>2</sub> S Cell (0 - 100 ppm) Hydrogen Sulfide (H <sub>2</sub> S) <sup>1</sup>	EC <sup>2</sup>	0 - 100 ppm	1 ppm	±4 % rdg ±0.5 ppm
	Si-AQ NO <sub>2</sub> Cell (0 - 20 ppm) Nitrogen Dioxide (NO <sub>2</sub> ) <sup>1</sup>	EC <sup>2</sup>	0 - 20 ppm	0.1 ppm	±4 % rdg ±0.5 ppm
	Si-AQ O <sub>2</sub> Cell (0 - 25 %) Oxygen (O <sub>2</sub> )	EC <sup>2</sup>	0 - 25 %	0.1 %	±0.1 % vol rdg
	Si-AQ SO <sub>2</sub> Cell (0 - 20 ppm) Sulfur Dioxide (SO <sub>2</sub> ) <sup>1</sup>	EC <sup>2</sup>	0 - 20 ppm	0.1 ppm	±4 % rdg ±0.5 ppm
	Si-AQ NO Cell (0 - 250 ppm) Nitric Oxide (NO) <sup>1</sup>	EC <sup>2</sup>	0 - 250 ppm	0.1 ppm	±4 % rdg ±0.5 ppm

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

<sup>2</sup> Electrochemical

<sup>3</sup> Accuracy based on laboratory conditions

<sup>4</sup> This sensor may have interference from H<sub>2</sub>, CO, H<sub>2</sub>S and other reducing gases such as alcohols

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

