Indoor Air Quality Test Kits

Specification Sheet

Indoor Starter Kit

Indoor Pro Kit

Kit for WELL

Portable and accurate real-time air quality information, made affordable

Easy-to-use air quality monitoring kitswith everything required to get started measuring common indoor pollutants, or for checking compliance to the WELL Building Standard™ (WELL).

Expand the kits at any time from our wide range of sensor heads for different gases, or customize a kit to suit your requirements.

Can also be used outdoors.

Kits at a glance

Kit / Contents	Series 500 Monitor*	Sensors						Carry Case
		PM	CO_2	VOC	CO	O_3	Temp / RH	
Starter Kit	✓	✓	✓	GSS			✓	Small
Pro Kit	✓	✓	✓	PID	✓		✓	Large
Kit for WELL	✓	✓			✓	✓	✓	Small

*Series 500 Monitor base including: LCD digital display, Lithium battery and charger, in-built datalogger, monitor to USB cable, PC software.

Who are they for?

- **Health and safety managers** who need to demonstrate safe environments
- **Researchers** who want to collect scientifically robust data on a limited budget
- **Air quality professionals** who need real-time measurements
- **Educators** who want students to learn about air pollution in a way that supports STEM

What are they for?

- Indoor air quality assessments
- Personal exposure checks
- Health and safety compliance
- Health and comfort assessment
- Checking indoor air pollution “hotspots”
- HVAC system performance monitoring
- Indoor air quality studies
- WELL Compliance assessments

Specifications | Indoor Air Quality Test Kits

Sensor specifications

Gas module & Particulate Sensors	Range	Sensor Type*	Minimum Detection Limit	Accuracy of Factory Calibration	Resolution	Response Time	Temperature	Relative Humidity	Kit		
									STR	PRO	WELL
Particulate Matter(PM_{10} & $PM_{2.5}$)	0.000 to 1.000 mg/m³	LPC	0.001 mg/m³	± (0.002 mg/m³+ 15% of reading)	0.001 mg/m³	5 Seconds	0 to 40°C	0 to 90%	✓	✓	✓
Ozone (O_3)	0-0.5ppm	GSS	0.001 ppm	<±0.008ppm 0-0.1 ppm <±10% 0.1-0.5 ppm	0.001ppm	60 Seconds	0 to 40°C	10 to 90%		✓	✓
Carbon Dioxide (CO_2)	0-5000ppm	NDIR	20 ppm	<±20 ppm + 5%	1ppm	120 Seconds	0 to 40°C	15 to 90%	✓	✓	
Carbon Monoxide (CO)	0-100ppm	GSE	0.2 ppm	<±1 ppm 0-10ppm <±10% ppm 10-100 ppm	0.1ppm	30 Seconds	0 to 40°C	15 to 90%		✓	
Carbon Monoxide (CO)	0-25ppm	GSE	0.05 ppm	<±0.5 ppm 0-05ppm <±10% 5-25ppm	0.01ppm	60 Seconds	0 to 40°C	15 to 90%			✓
VOC	0-25ppm	GSS	0.1 ppm	<±0.1ppm + 10%	0.1ppm	60 Seconds	0 to 40°C	15 to 95%	✓		
VOC	0-20ppm	PID	0.01 ppm	<±0.2ppm + 10%	0.01ppm	30 Seconds	0 to 40°C	0 to 95%		✓	

* Sensor Types: Gas Sensitive Semiconductor (GSS), Gas Sensitive Electrochemical (GSE), LaserParticle Counter (LPC), Photoionization Detector (PID). For the full range of available sensors, visit our website; www.aeroqual.com or download the list.

Monitor specifications

Series 500 portable monitor system specifications (Included in Starter & Pro Air Testing Kits)	
Measurement units	Gas: ppm or mg/m³ | Relative Humidity: % | Temperature °C or °F
Reading functions	Instant, minimum, maximum, average
Sensor head	Active fan sampling to ensure high accuracy measurements, interchangeable, replaceable
Display status indicators	Battery, sensor, standby
Sensor calibration	Zero and gain calibration in the lab or field
Analog output	0-5 V
Digital interface	RS-232 to USB
Data logging	Up to 8,188 records(2,706 incl. Temp/RH)
PC data logging	Software and data cable supplied. Link data to a specific location and monitor
Clock function	Real time
Power supply	12V DC (power adaptor/charger supplied 100-250 V AC)
Rechargeable battery	Lithium polymer 12 V DC 2700 mA/h
Enclosure material and rating	PC and ABS; IP20 and NEMA 1 equivalent
Size	(L x W x D) 195 x 122 x 54 (mm); 7⅝ x 4¾ x 2⅛ (in)(with sensor head)
Weight	< 460 g; < 16 oz(with sensor head and battery)
Environmental operating conditions	Temperature: -5 °C to 45 °C| Relative Humidity: 0 to 95% non-condensing
Temperature & Humidity sensor	Range -40 °C to 124 °C (-40 °F to 255 °F); Range 0 to 100% RH
Approvals	Part 15 of FCC Rules; EN 50082-1: 1997; EN 50081-1: 1992