S Series

Specification Sheet

Accurate real-time air quality information, made affordable

Designed for those who need a handheld device to gather real-time information on the surrounding air.

A simple tool for professionals and enthusiasts alike, the portable monitors can be configured with 28 different gas and particle sensors.

Suitable for measuring target gases in ambient air at different concentrations in outdoor or indoor environments.

What are they for?

- Environmental impact assessments
- Indoor air quality testing
- Checking air pollution “hot spots”
- Educational tool for schools
- Community air pollution monitoring
- Validating air quality models
- Health and safety compliance
- Personal exposure monitoring

What are they for?

- Interchangeable sensor heads enable measurement from a choice of 16 different gases or particulates.

PM_{10} $PM_{2.5}$ VOC O_3 NO_2 CO

CO_2 SO_2 CH_2O H_2S NH_3 Cl_2

CH_4 H_2 NMHC C_2Cl_4 TRH

Who is it for?

- **Air quality professionals** who need real-time defensible measurements
- **Community groups** who need cost-effective scientifically credibleair quality data
- **Educators** who want students to learn about air pollution in a way that supports STEM
- **Health and safety managers** who need to demonstrate safe environments
- **Researchers** who want to collect scientifically robust data on a limited budget
- **Environmental consultants** who needa portable device for periodic and discrete monitoring
- **Citizens** who want to measure their personal exposure to air pollution

Specifications | S Series portable air quality monitors

S Series system specifications		Series 300	Series 500
Measurement units	Gas: ppm or mg/m³ | Humidity: % | Temperature °C or °F	✓	✓
Reading functions	Instant, minimum, maximum, average	✓	✓
Sensor head	Active fan sampling to ensure high accuracy measurements, interchangeable, replaceable	✓	✓
Sensor head calibration	Zero and span calibration	✓	✓
Temperature & humidity sensor	Range -40°C to 124°C (-40°F to 255°F); Range 0 to 100"% RH	✓	✓
Environmental operating conditions	Temperature: -5°C to 45°C | Humidity: 0 to 95% non-condensing	✓	✓
Display status indicators	Battery, sensor, standby	✓	✓
Power supply	12Vdc (power adaptor/charger supplied 100-250Vac)	✓	✓
Rechargeable battery	Lithium-ion 12Vdc 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	<460g; <16oz (with sensor head and battery)	✓	✓
Approvals	Part 15 of FCC Rules; EN 50082-1: 1997; EN 50081-1: 1992	✓	✓
Analog output	0-5V	✓	✓
Clock function	Real time		✓
Digital interface	RS-232 to USB		✓
Data logging	Up to 8,188 records (2706 incl. Temp/RH)		✓
PC data logging (Windows)	Software and data cable supplied. Link data to a specific location and monitor		✓

For the full range of available sensors heads, visit our website; www.aeroqual.com or download the list.

Optional Accessories

Temperature/ RH Sensor
HH TRH

Wall Bracket
AS R33

Industrial Enclosure
HH ENC

Remote Sensor Kit
AS R10

IP41 Remote Sensor Kit
AS R13

Cigarette Lighter Adaptor
AS R32

Lithium Battery
AS R36

Carry Case Small
AS R40

Carry Case Large
AS R41