

# Series 500

## Portable Gas Monitor

The Series 500 monitor from Aeroqual is a feature-rich portable monitor with the ability to accurately measure multiple target gases at different concentrations in indoor and outdoor applications.

Built-in data-logging and a long-life, fast-charging lithium battery makes the Series 500 the ultimate choice for air quality professionals, consultants, and researchers.

- Built-in data-logging
- Lithium battery as standard
- PC software (Windows 7, 8, XP)
- Connect to PC via USB cable
- High and low alarms, control output
- Link data to a specific location and monitor
- Interchangeable gas sensor heads (30+ choices)
- Temperature and RH sensor optional (plug-and-play)



### Specifications

Measurement units	Gas: ppm or mg/m <sup>3</sup>   Humidity: %   Temperature °C or F
Reading functions	Instant, minimum, maximum, average
Alarm features	Low alarm, high alarm, mute (configurable)
Display status indicators	Alarm, battery, datalogging, sensor, standby, monitor and location ID
Audible alarm	Low and/or high alarm setpoints (with mute)
External signal functions	Low alarm, high Alarm, control (150mA max)
Sensor calibration features	Zero calibration, gain adjustment
Analog output	0-5V
Digital interface	RS232 to USB
Data logging capacity	Up to 8,188 records (2,706 incl. temp/RH)
PC data logging	Software and data cable supplied
Clock function	Real time
Power supply	12V DC (power adaptor/charger supplied 100-250V AC)
Rechargeable battery	Lithium polymer 12V DC   2700mAh (2 hr charge time / 8 hr run time)
Enclosure material and rating	PC and ABS; IP20 and NEMA 1 equivalent
Size (with sensor head)	195 x 122 x 54 (mm); 7 7/8 x 4 3/4 x 2 1/8 (in)
Weight (with sensor head and battery)	< 460 g; < 16 oz
Environmental operating conditions	Temperature: -5 °C to 45 °C ; Humidity: 0 to 95% non-condensating
Optional accessories	Remote sensor kit, spare battery, car adaptor, wall bracket, carry case
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

### Sensor Heads and Accessories



Wall-mount bracket

Carry Case



Sensor heads are available for these gases:

**Ammonia (NH<sub>3</sub>)**  
**Carbon dioxide (CO<sub>2</sub>)**  
**Carbon monoxide (CO)**  
**Hydrogen (H<sub>2</sub>)**  
**Hydrogen sulphide (H<sub>2</sub>S)**  
**Methane (CH<sub>4</sub>)**  
**Nitrogen dioxide (NO<sub>2</sub>)**  
**Non methane hydrocarbon (NMHC)**  
**Ozone (O<sub>3</sub>)**  
**Sulphur dioxide (SO<sub>2</sub>)**  
**Volatile organic compounds (VOC)**  
**Multi-sensor head: VOC / CO / CO<sub>2</sub> or CO / CO<sub>2</sub>**  
 See *Sensor Specifications* datasheet for details

