

# aeroqual<sup>®</sup>

## SERIES 500

### Portable Indoor Air Quality Monitor

Accurately measure multiple target gases at different concentrations

The Series 500 enables accurate real-time surveying of common indoor air pollutants, all in an ultra portable handheld indoor air quality monitor. Data is stored on board the Series 500 with a maximum 8,188 records available. To download the data a USB cable is supplied for connection to PC. Free PC software provided with the Series 500 takes the data and presents it in a chart or table view. Data can be downloaded and viewed in Excel.

The monitor can also operate in control mode. Upper and lower control limits can be easily set directly on the display. Using the 0-5V output the Series 500 can be used to switch on or off an externally connected device, such as an ozone generator, or system in the presence of a predetermined level of gas. By selecting the optional wall-mount bracket and plugging in mains power the Series 500 is effectively able to act as a fixed monitor as well as a handheld portable device.

Other features on the Series 500 include monitor ID and location ID. Monitor ID identifies the monitor uniquely and ensures that all data from it are tied to that monitor. Location ID can be used to tag measurements to a specific location which is helpful when sampling at a number of sites over the course of a day or week.



#### Key Features

- Simple to use, easy to maintain, multiple applications
- Interchangeable gas sensor heads
- Field replaceable long life Lithium battery (up to 8 hours)
- Minimum, maximum and average readings
- Zero calibration, gain adjustment
- High and low alarms
- Analog outputs (0-5V)
- Data logging (Up to 8,188 records (2706 incl. temp/RH))
- Free desktop software (Series 500)

#### Sensors

- Ammonia (NH<sub>3</sub>)
- Carbon monoxide (CO)
- Carbon dioxide (CO<sub>2</sub>)
- Chlorine (Cl<sub>2</sub>)
- Formaldehyde (CH<sub>2</sub>O)
- Hydrogen (H<sub>2</sub>)
- Methane (CH<sub>4</sub>)
- Hydrogen sulphide (H<sub>2</sub>S)
- Nitrogen dioxide (NO<sub>2</sub>)
- Non methane hydrocarbon (NMHC)
- Ozone (O<sub>3</sub>)
- Perchloroethylene (C<sub>2</sub>Cl<sub>4</sub>)
- Sulphur dioxide (SO<sub>2</sub>)
- Volatile organic compounds (VOC)

## Series 500 Specifications

Feature	Series 500
Measurement units	Gas: ppm or mg/m <sup>3</sup>   Humidity: %   Temperature °C or F
Reading functions	Instant, minimum, maximum, average
Sensor head	Interchangeable, replaceable
Display status indicators	Battery, sensor, standby
Sensor calibration	Zero and gain calibration
Analog output	0-5 V
Digital interface	RS-232 to USB
Data logging	Up to 8,188 records (2706 incl. Temp/RH)
PC data logging (Windows 7, 8, XP)	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 (with sensor head)	(L x W x D) 195 x 122 x 54 (mm); 7½ x 4¾ x 2½ (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-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

### Optional accessories (selection)



### Sensors

