

# UV-1

## UV Ozone Photometer OEM Module

### Description

The Aeroqual UV-1 Ozone Photometer Module is designed for measurement and control of ozone in the range 0-200 ppm using a single beam UV photometer. It has a folded metal enclosure designed to be built into an ozone treatment system. The UV- 1 offers advanced monitoring and control.



Indicative picture of UV-1

### Features

- Wide measurement range of ozone (0-200 ppm)
- Single-beam UV photometer
- Pump sampling via PTFE tubing (e.g. monitoring outside of a room or duct)
- Digital RS485 output (2 wire) or RS232
- Custom configuration upon request

### Specifications

|                                    |  |
|------------------------------------|--|
| Calibrated range                   | 0-200 ppm Ozone  |
| Precision                          | <±5% of reading above 0.2 ppm<br>±0.01 ppm below 0.2 ppm |
| Resolution                         | 0.01 ppm   |
| T90                                | <60s   |
| Sampling method                    | Brushless DC diaphragm pump                              |
| Sample flow rate                   | 0.4 ±0.05 LPM  |
| Inlet filter                       | 5 µm pore size, 37 mm PTFE filter                        |
| Pneumatic connections              | Kynar 6.25 mm (1/4" ) compression fittings               |
| Wetted materials                   | Kynar, Teflon PFA, quartz, aluminium, Viton              |
| Environmental operating conditions |  |
| Temperature                        | 0-40 °C  |
| RH                                 | 0-95% RH (non-condensating)                              |
| Power requirements                 | 24V DC, 2A   |
| Digital interface                  | RS485 (2 wire), RS232 (communication protocol supplied)  |
| Connectors                         | Screw  |
| Enclosure                          | Folded aluminium<br>280 x 120 x 90 mm                    |
| Software                           | RS232 datalogging software supplied                      |

### Options

0-5V analog output, 12 bit

### Accessories (optional)

24V DC DIN rail mount 100-250V AC (R35)

Spare inlet filters (25 pack) (R12)

RS485 to USB converter (R53)

10 m x 6.25 mm OD PFA tubing (R66)