

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 ±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 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)