

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 (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

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 6.25mm (¼+) 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	24VDC, 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	0-5 V analog output, 12 bit
Accessories (optional)	24VDC DIN rail mount 100-250V AC (R35) Spare inlet filters (25 pack) (R12) RS485 to USB converter (R53) 10m x 6.25mm OD PFA tubing (R66)