

UV-H

UV Ozone Photometer

Description

The Aeroqual UV-H Photometer Instrument is designed for measurement of ozone in the range of 0-200 ppm using a single beam UV photometer. It is housed in a portable instrument case and is designed to be used in a variety of ozone measurement applications. The UV-H ozone photometer is a high performance yet cost effective monitor with full data logging functionality. Data is logged to a removable Secure Digital (SD) card or logged directly to a PC using the supplied software. Optional analog and relay control outputs are available for control applications.



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)
- RS232 output as standard
- Optional 0-5V DC analog output and relay with user defined setpoints
- Full data logging functionality including a removable Secure Digital (SD) card
- 4-line x 20-character digital display

Specifications

Calibrated range	0-200 ppm or 0-400 mg/m ³ 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 ¼" compression fittings
Wetted materials	Kynar, Teflon PFA, quartz, aluminium, Viton
Environmental operating conditions	
Temperature	0-40 °C
RH	0-95% RH (non-condensating)
Display	4-line x 20 character VFD
Digital interface	RS232
ID	1 (default) user configurable from 1 to 255
Data logging	2 GB SD card
Enclosure	Metal instrument case 378 x 236 x 132 mm
Power supply	Switch mode power supply 24 VDC Input 90-260V AC; 47-63Hz
Software	PC data logging software (supplied)
Options	Analog output board with 0-5V 12 bit (0-200ppm) and setpoint controlled 30V DC 2A relay
Accessories (optional)	RS232 to USB converter (R52) Spare inlet filters (R65) 10 m x 6.25 mm OD PFA tubing (R66)