

Series 940 | 945

Transmitter & Controller

Features

- Active sampling via Teflon tubing and pump
- Excellent water ingress protection
- Remote sampling from inaccessible areas
- Multiple analog and digital outputs
- Large LED display option
- Real-time network capability
- PC data logging and networking option
- Temperature and RH sensor option (Series 945)

Applications

- Pressure and flow fluctuating environments
- Controlled atmospheres (e.g. produce storage)
- Low oxygen environments (3-5% O₂)
- Indoor air quality (e.g. duct sampling)
- Filtered air sampling
- Sampling outdoor air quality



Series 940 Ozone Transmitter with LED display

Specifications

Power (user supplied)	24VDC, 500mA (range 22-26 VDC)
Analogue output	4-20 mA (opto-isolated), 12-24 V
External signal type	Transistor Output
External signals (4)	Low Alarm High Alarm Control Diagnostics
LED Display	Optional
Inputs	Standby toggle
Communication	RS485 (Aeroqual proprietary protocol)
Jumpers	J1, J2, J3 termination resistors
Connectors	Screw
ID	1 (Default) User configurable from 1 - 255
Alarm set points (2)	User configurable
Control set point	User configurable
Removable / replaceable sensor head	Yes
Sampling pump	Long life brushless DC motor Diaphragm or Rotary Vane
Temperature & humidity sensor (Series 945)	Range -40°C to 124°C (-40°F to 255°F) Range 0 to 100% RH
Configuration software	PC Configuration Program on CD-ROM (supplied)
Data logging & networking software	PC Data Logging & Networking CD-ROM (optional product code: R60)
Enclosure casing	Fibre reinforced polycarbonate IP41 & NEMA 2 equivalent
Enclosure size	230W x 140H x 95D (mm); 9"W x 5½"H x 3¾"D (in)
Weight	< 1100 g; < 1 lb 3 oz
Approvals	Part 15 of FCC Rules EN 50082-1: 1997 EN 50081-1: 1992



Ozone Sensor Heads (other gases and calibrations are available – contact Aeroqual for controlled atmospheres)

Sensor Head	Calibrated Range	Maximum Exposure	Lowest Detection	Accuracy of Calibration	Resolution	Response Time (T90)	Operating Conditions
Ultra low	0-0.15ppm	0.25ppm	0.001ppm	<±0.005ppm	0.001ppm	< 70 s	Temperature -5°C to 40°C Humidity 5 to 95% RH (non-condensating)
Low	0-0.5ppm	1ppm	0.001ppm	<±0.008 < 0.1ppm <±10% 0.1-0.5ppm	0.001ppm	< 60 s	
High	0.5-20ppm	25ppm	0.01ppm	<±10% 0.2-2ppm <±15% 2-20ppm	0.01ppm	< 60 s	