

Series 940s | 945s

Gas Transmitter & Controller

Features

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

Applications

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



Series 940s Ozone Transmitter with LED display

Specifications

Power (user supplied)	24V DC, 500mA (range 22-26V DC)
Analogue output	4-20mA (opto-isolated), 12-24V
External signal type	Transistor output (150mA max)
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 to 255
Alarm set points (2)	User configurable
Control set point	User configurable
Removable / replaceable / refurbish-able sensor head	Yes
Sampling method	Diaphragm pump with long-life brushless DC motor
Temperature & humidity sensor (Series 945)	Range -40°C to 124°C (-40°F to 255°F) Range 0 to 100% RH
Configuration software (standard)	PC Configuration Program CD (supplied)
Data logging & networking software (optional)	PC Data Logging & Networking CD (code: R60)
USB interface (optional)	RS485 to USB converter (code: R53)
Power supply (optional)	24V DC DIN rail mount 100-250V AC (code: R38)
Enclosure casing	Fibre reinforced polycarbonate IP41 & NEMA 2 equivalent
Enclosure size	230 x 140 x 95 (mm); 9 x 5½ x 3¾ (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 (contact Aeroqual for other gases or controlled atmosphere calibrations e.g. low O₂)

Sensor	Range	Maximum Exposure	Detection Limit	Accuracy of Calibration	Resolution	Response Time (T90)	Operating Conditions
OZU4	0-0.15 ppm	0.25 ppm	0.001 ppm	<±0.005 ppm	0.001 ppm	< 70 s	Temperature -5°C to 40°C
OZL4	0-0.5 ppm	1 ppm	0.001 ppm	<±0.008 ppm 0-0.1 ppm <±10% 0.1-0.5 ppm	0.001 ppm	< 60 s	Humidity 5 to 95% RH (non-condensing)
OZG4	0-10 ppm	15 ppm	0.01 ppm	<±0.1 ppm 0-1 ppm <±15% 1-10 ppm	0.01 ppm	< 60 s	