

Series 905

Transmitter / Controller

(With Temperature & Relative Humidity)

Specification

Temperature and Humidity Sensors	Accuracy	Resolution	Range
Temperature	± 0.3 [K] @ 25°C	0.04 min resolution	range -40°C to 124°C
Humidity	$\pm 1.8\%$ RH	0.4 min resolution	range 0 – 100%

Base Unit

Power (user supplied)	Regulated 12 VDC, 800 mA
Analog output	4-20 mA (opto-isolated), 10-30 V
External signal type	Transistor output
External signals	4
External signal functions	Low Alarm, High Alarm, Control & Diagnostics
Inputs	Standby toggle
Communication	RS485
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
RS485 protocol	Aeroqual proprietary product
Removable / replaceable sensor head	Yes
Enclosure rating	IP20 & NEMA 1 equivalent
Enclosure size (with base unit)	64 H x 130 Ø (mm); 2½ H x 5⅝ Ø (in)
Mounting	Screw fixture
Weight	< 200 g; < 7 oz
Approvals	Part 15 of the FCC Rules, EN 50082-1: 1997, EN 50081-1: 1992



Ozone Sensor Head Specifications

Sensor Heads	Low	High	Leak
Measurement range	0.000 - 0.500 ppm	0.50 - 20.00 ppm	0.00 - 50.00 ppm
Accuracy	< 0.008 ppm (0 - 0.100 ppm) ± 10% (0.100 – 0.500 ppm)	± 10% (0.20 - 2.00 ppm) ± 15% (2.00 - 20.00 ppm)	± 20%, 15 seconds after Reset
Resolution	0.001 ppm	0.01 ppm	0.01 ppm
Controlled Atmosphere Version	Available on Request	Available on Request	Available on Request
T90 Response	< 60 seconds (T90)	< 35 seconds (T90)	< 10 seconds
Sensor type	Gas-sensitive semiconductor		
Operating temperature range	-5°C to 50°C; 23°F to 122°F (sensor head and base unit)		
Relative humidity limit	95% maximum (sensor head and base unit)		

VOC Sensor Head Specification *

Measurement range	0 to 400 ppm toluene
Accuracy	< +/- 10 ppm (0 – 200 ppm) < +/- 10% (> 200 ppm)
T90 response	< 60 s
Sensor type	Gas-sensitive semiconductor
Operating temperature range	-20°C to 60°C
Operating relative humidity range	5 to 95% non-condensating

* Specific Calibrations to other VOC's available – contact Aeroqual Sales

Ammonia Sensor Head Specification

Measurement range	0 to 1000 ppm
Accuracy	< +/- 5 ppm (0 – 100 ppm) < +/- 10% (100 – 1000 ppm)
T90 response	< 60 s
Sensor type	Gas-sensitive semiconductor
Operating temperature range	-20°C to 60°C;
Operating relative humidity range	5 to 95% non-condensating

CO Sensor Head Specification

Measurement range	0 to 2000 ppm carbon monoxide
Accuracy	< +/- 10 ppm in the range 0 to 400 ppm
T90 response	< 150s
Sensor type	Gas-sensitive semiconductor
Operating temperature range	0°C to 70°C;
Operating relative humidity range	5 to 95% non-condensating
Approvals	UL 2034, BS 7860