

# EC9810A

## UV Absorption Ozone Analyzer

The EC9810A Ozone Analyzer combines microprocessor control with ultraviolet (UV) photometry to provide accurate measurements in the range of 0-50 ppb and 0-20 ppm with a detection limit of 0.5 ppb.

Improved sensitivity, noise and zero drift are obtained through the use of superior optical technology and the introduction of a new electronics suite that provides better all-round performance.



### Features

- Large Graphic LCD provides continuous instrument status outputs including gas concentration, zero/span calibration curves, sample flow and pressure.
  - The micro processor facilitates external remote control of the analyzer and provides up to 100 channels of instrument operating parameters.
  - Inbuilt data logger utilizes Flash ROM to store up to 175 days of 5 minute averaged data.
  - Stored data can be retrieved via RS232, USB interface or the optional Ethernet connector and uploaded to a TCP/IP network .
  - Ethernet option facilitates data download from an analyzer connected to the internet via a standard web interface. This feature also supports remote access to instrument parameters and the status output screen.
  - Internal pump and optional internal 12VDC power supply enables the EC9810 to be operated from a battery or solar powered source for remote or mobile applications.
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- Complies with U.S. EPA Automated Equivalent Method EQOA-0193-091.
  - Selectable rolling data averages periods of 4 or 8 hours.



**ECOTECH**WORLD CLASS  
environmental  
MONITORING

## Specifications

Ranges:	Auto-ranging for 0-50 ppb to 0-20ppm
Data Display:	Large Graphic LCD display, with unit selection mg/m <sup>3</sup> , µg/m <sup>3</sup> , ppm, ppb, ppt.
Analogue Out:	0 - full scale from 0 - 50 ppb to 0 - 20ppm with menu selectable offset of 0%, 5% or 10%. Auto-ranging between two user specified full-scale values
Noise:	<0.25 ppb or 0.1% of reading RMS whichever is greater, with Kalman filter active.
Lower Detectable Limit:	0.5 ppb with Kalman filter active
Linearity:	< 1% of full scale
Precision:	1 ppb or 0.5 % of reading whichever is greater
Zero Drift:	24 hours: < 1ppb 30 days: < 1 ppb
Span Drift:	24 hours < 0.5% of reading 30 days < 0.5% of reading
Temperature/Pressure Compensation:	Temperature/Pressure compensation with selectable reference temperature of 0°C, 20°C, 25°C at 101.3 kPa.
Sample Flow Rate:	500 cc/min
Temperature Range:	5°- 40 °C (U.S. EPA approval 15°C – 35°C)
Analogue Outputs:	Menu selectable current output 0-20mA, 2-20 mA, 4-20 mA.
50 pin I/O PCA:	Allows for jumper selectable voltage outputs of 100 mV, 1 V, 5 V, 10 V with menu selectable zero offset of 0, 5% or 10%.
Digital I/O DB50:	Local user DB50 I/O interface with 32 digital open collector outputs and 3 digital inputs user controls. The digital outputs are 24 status output commands, 8 status alarm conditions and 2 analogue inputs 0-5V.
Communication Port:	Rear panel multi-drop RS232 port shared between analysers for data, status and control. Plus USB interface and optional Ethernet connection to a TCP/IP network via an RJ45 connector.
Data Logging:	Supports internal data logging capability with storage up to 175 days of 5 minute data stored in flash ROM.
Data Storage selection:	Instantaneous data selectable period from: 1,3,5,10,30, or 60 minute intervals Average data selectable period from: 1,3,5,10,15,30 minutes, 1,4,8,12, or 24 hours.
Power:	99-132 vAC, 198-264 vAC 47-63 HZ, 110 Watts
Dimensions/weight:	43.2 x 17.8 x 64.8 cm (w x h x d), weight 21 kg
Options:	Rack mount kit assembly (19") 9800036-2 External zero/span valve assembly (EZS) 98300087 Ethernet connection to a TCP/IP network via an RJ45 connector



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