The Serinus 10 Ozone (O₃) analyser delivers precise and reliable performance at excellent value. It uses proven non-dispersive ultraviolet (UV) absorption technology to measure O₃ in ambient air (LDL <0.5ppb, range 0-20ppm).

**APPROVALS**

- EN approval TÜV 936/21221977/C.
- Russian approval 56053-13.

**BENEFITS**

The Serinus range of analysers have been designed using our experience and knowledge gained from operating large air quality monitoring networks for more than 35 years. The result, instruments that integrate seamlessly into continuous monitoring networks.

**Benefits include:**

- Guaranteed performance with a two year warranty.
- Minimises time spent on site performing maintenance through superior remote instrument control, diagnostic viewing and calibration.
- Comprehensive data logging and remote viewing of over 200 operational parameters.
- Versatile interfacing through RS232, USB, Bluetooth, analogue and optional TCP/IP.
- Easier setup through an intuitive menu system with “Quick Menu”, advanced GUI and a large keypad with tactile keys.
- Instant display of operational status using illuminated traffic lights on the front panel.
- Removable flash memory stores 10 years of data, including up to 12 individual parameters and event logs. Operational parameters can also be transferred to memory for easy retrieval.
- Latest firmware updates can easily be installed using the USB flash memory drive.
- Programming, viewing, downloading and emailing of data is made even simpler using bluetooth connectivity combined with the “Ecotech Serinus Remote” Android App.
- Enhanced operator safety through the use of 12VDC internal voltages.
- Reduced cost of spare parts, accessories and consumable items through extensive use of standard components across the Serinus range.
- Rack slide design makes accessing internal components and removing the analyser from a rack cabinet easy.
- Sample pump versatility—choose either an external sample pump suitable for use by multiple analysers or the optional low power internal pump.
- AQM system power usage can be reduced due to the instrument’s low power demand and its ability to operate over a wide temperature range.
**SPECIFICATIONS**

Ranges: Autoranging 0-20ppm  
(Analogue ranges 0-50 ppb to 0-20 ppm)

Concentration display: User selectable mg/m³,  
μg/m³, ppm, ppb, ppt

Noise: < 0.25 ppb

Lower detectable limit: < 0.5 ppb

Linearity: < 1% of full scale

Precision: 0.5 ppb or 0.2% of reading whichever is greater

Zero drift: 24 hours: < 0.3 ppb  
7 days: < 0.3 ppb

Span drift: 7 days: < 0.5% of reading

Response time: 30 seconds to 95%

STP reference: 0°C, 20°C, 25°C at 101.3kPa

Sample flow rate: 500 cc/min  
(optionals 750 cc/min)

Temperature range: 0 - 40°C

Power: 100-240 VAC, 50-60 Hz  
85VA (max startup), 65 VA (nominal)

Dimensions (wxhxd): 3.5 RU, 429 x 175 x 638 mm

Weight: 17.2kg

Communications:
- USB port (digital communication).
- Bluetooth (digital communication via Android App).
- TCP/IP Ethernet network connection (optional).
- RS232 Port 1: Digital communication.
- RS232 Port 2: Multidrop port.
- Protocols: Modbus RTU/TCP, Bavarian, EC9800, Advanced.

Inputs/outputs: 25 pin I/O port
- Menu selectable current or voltage output 0-20mA, 4-20 mA, or 0-5 VDC (opt 0-10VDC).
- Menu selectable offset of 0%, 5% or 10%.
- Auto-ranging from 0-50 ppb to 0-20ppm (between two user specified full scale values).
- 3 scalable analogue inputs, 0-5v, 160μV resolution.
- 8 logic level digital status inputs/8 open collector digital outputs.

Data logging: Removable USB flash memory drive that stores data in the following formats:
- Instantaneous data from: 1, 3, 5, 10, 30, or 60 minute intervals and 2, 5, 10, 30 seconds.
- Average data from: 1, 3, 5, 10, 15, 30 minutes, 1, 4, 8, 12, or 24 hours.
- Data storage of 10 years of 12 parameters, 1 minute data on 8 Gb memory.

OPTIONS & ACCESSORIES
- External AC powered pump (capable of operating 3 analysers, excluding NOX).
- Internal long life, low power maintenance free pump (Max 6 watts).
- Rack mount slides, Dual filter (particulate).
- TCP/IP network port.
- High pressure zero valve.

Bluetooth connectivity combined with the “Ecotech Serinus Remote” Android App makes it even easier to program, maintain, download and email data without touching the instrument.

For your local certified distributor visit: www.ecotech.com/distributors  
Ecotech Pty Ltd  
T (Australia) 1300 364 946 T (International) +61 3 9730 7800  
E info@ecotech.com W www.ecotech.com

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