

Serinus Gas Analyzer Series



The new Serinus series is the next generation of gas analyzers from Ecotech, a leading manufacturer of environmental monitoring solutions. Completely redesigned and incorporating innovative technology, the Serinus series will deliver:

- Superior performance
- Low total cost of ownership
- Reduced maintenance intervals

Key features across the Serinus series include:

- Interchangeable components, consumables, spare parts, and accessories, keeping operation and service costs low.
- A low carbon footprint due to reduced power consumption and operation over a wider temperature range.
- Use of zero volume fittings and flexible Teflon tubing improves system integrity.
- Redesigned electronics suite delivers greater stability and reliability.

The Serinus series have been designed with customers in mind. Building on Ecotech's renowned EC9800 series, the Serinus incorporates new features to make ambient and emissions monitoring even easier, including:

- Removable flash memory stores up to eight years of one minute data, including the ability to record up to 12 individual parameters, instrument settings, and event logs.
- Optional dual particulate filter can reduce scheduled on-site maintenance visits by up to 50%.
- Intuitive Quick Menu and easier to read Graphical User Interface (GUI) simplifies instrument operation.
- New advanced diagnostics protocol with detailed event tracking and convenient "Traffic Light" analyzer state indicator.
- Full remote control of instrument functions including calibrations, span/zero checks, and diagnostics.

General Specifications:

Power: 99-132, 198-264 VAC 47-63 Hz.
Dimensions: 440 x 178 x 620 mm (w x h x d)
Temp. Range: 0° - 40° C
STP Reference: 0° C, 20° C, 25° C at 101.3 kPa
USB flash memory: Inst. Data: 1, 3, 5, 10, 30 or 60 minute
Average data: 1, 3, 5, 10, 15, 30 minutes, 1, 4, 8, 12, or 24 hours
Data storage: 8 years of 1 minute data
Options: Internal low power pump (max. 6 watts)
 External AC powered pump
 Dual filter (particulate)
 TCP/IP network communication

Communications:

Comm. Ports: USB port (digital communication)
 TCP/IP Ethernet Network connection
 RS232 Port 1: Digital Communication
 RS232 Port 2: Multidrop port
 25 pin I/O port
Analog Outputs: Menu selectable current or voltage output 0-20 mA, or 0-5 VDC.
 Menu selectable offset of 0%, 5%, or 10%.
 Auto-ranging 0-20 ppm (0-200 ppm CO)
Analog Inputs: 3 analog inputs, 0-5 V, 160 µV (resolution)
Digital Inputs: 8 logic level inputs
Digital Outputs: 8 open collector outputs



Specifications

Serinus 10 O₃ Analyzer

US EPA approval EQOA-0809-187

Method: UV absorption
 Ranges: 0-20 ppm (Autoranging)
 Noise: < 0.25 ppb
 LDL: < 0.5 ppb
 Linearity: < 1% of full scale
 Precision: 0.5 ppb at < 100 ppb, otherwise 0.2% of reading
 Zero Drift: 24 hours: < 0.3 ppb
 7 days: < 0.3 ppb
 Span Drift: 24 hours: < 0.1% of reading
 7 days: 0.5 ppb or < 0.5% of reading
 Response Time: 30 seconds to 95%
 Sample Flow Rate: 500 cc/min (optional 750 cc/min)
 Weight: 32.6 lbs (14.8 kg)

Serinus 30 CO Analyzer

US EPA approval RFCA-0509-174

Method: Gas filter correlation
 Ranges: 0-200 ppm (Autoranging)
 Noise: < 20 ppb
 LDL: < 40 ppb
 Linearity: < 1% of full scale
 Precision: 20 ppb or 0.1% of reading (whichever is greater)
 Zero Drift: 24 hours: < 0.1 ppm
 7 days: < 0.1 ppm
 Span Drift: 24 hours: < 0.1% of reading
 7 days: < 0.5% of reading
 Response Time: 60 seconds to 95%
 Sample Flow Rate: 1000 cc/min
 Weight: 39.2 lbs (17.8 kg)

Serinus 40 NO_x Analyzer

US EPA approval EQOA-0809-188

Method: Gas phase chemiluminescence
 Ranges: 0-20 ppm (Autoranging)
 Noise: < 0.2 ppb
 LDL: < 0.4 ppb
 Linearity: < 1% of full scale
 Precision: 0.4 ppb or 1% of reading (whichever is greater)
 Zero Drift: 24 hours: < 0.4 ppb
 7 days: < 1 ppb
 Span Drift: 24 hours: < 0.2 % of reading
 7 days: < 1% of reading
 Response Time: 15 seconds to 95%
 Sample Flow Rate: 340 cc/min
 Weight: 46.7 lbs (21.2 kg)

Serinus 50 SO₂ Analyzer

US EPA approval EQOA-0809-186

Method: UV fluorescence
 Ranges: 0-20 ppm (Autoranging)
 Noise: < 0.15 ppb
 LDL: < 0.3 ppb
 Linearity: < 1% of full scale
 Precision: 0.5 ppb or 0.15% of reading (whichever is greater)
 Zero Drift: 24 hours: < 0.5 ppb
 7 days: < 0.5 ppb
 Span Drift: 24 hours: < 0.2% of reading
 7 days: < 1% of reading
 Response Time: 60 seconds to 95%
 Sample Flow Rate: 675 cc/min
 Weight: 40.6 lbs (18.1 kg)

Serinus 55 H₂S Analyzer

Method: UV fluorescence
 Ranges: 0-2 ppm (Autoranging)
 Noise: < 0.15 ppb
 LDL: < 0.3 ppb
 Linearity: < 1% of full scale
 Precision: 0.5 ppb or 0.15% of reading (whichever is greater)
 Zero Drift: 24 hours: < 0.5 ppb
 7 days: < 0.5 ppb
 Span Drift: 24 hours: < 0.2% of reading
 7 days: < 1% of reading
 Response Time: 60 seconds to 95%
 Sample Flow Rate: 675 cc/min
 Weight: 40.6 lbs (18.1 kg)

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