

# Serinus 50 SO<sub>2</sub> Analyzer

**The new Serinus 50 Sulfur Dioxide (SO<sub>2</sub>) analyzer is the next generation in ambient gas monitoring technology.**

The Serinus 50 Sulfur Dioxide analyzer uses proven UV fluorescent radiation technology to measure SO<sub>2</sub> in ambient air (LDL <0.3ppb, Range 0-20ppm). Combining several new technical advances and innovative features, the Serinus delivers Ecotech's renowned performance at excellent value.



## Superior performance

- U.S. EPA approved (EQSA-0809-188)
- New zero volume fittings and flexible Teflon® tubing improves system integrity
- All new electronics suite delivers better performance and instrument reliability
- Advanced diagnostics and status indicator deliver better instrument status information
- New intuitive menu system with “Quick Menu” and easier to read advanced GUI
- New removable flash memory stores eight years of data, including up to 12 individual parameters, instrument settings and event logs

## Lower Cost of Ownership

- More affordable to purchase, operate and maintain
- Utilizes low cost consumables, spare parts and accessories
- User selectable operating temperature range delivers reduced power usage and a lower carbon footprint

## Reduced Maintenance

- Improved remote diagnostics and maintenance functions
- Extensive use of standard components across the Serinus range reduces the cost of spare parts, accessories and consumable items
- Improved remote instrument diagnostics and maintenance functions including calibration, parameter set-up, operational status etc.
- New “dual particulate filter” can reduce scheduled maintenance calls by up to 50%

***Serinus delivers the performance you need  
at the price you want!***



## Specifications

Ranges:	0-20ppm (Autoranging)
Concentration Display:	User selectable mg/m <sup>3</sup> , µg/m <sup>3</sup> , ppm, ppb, ppt.
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%
STP reference:	0°C, 20°C, 25°C at 101.3 kPa.
Sample Flow Rate:	675 cc/min
Temperature Range:	0°- 40 °C
Power:	99-132 VAC, 198-264 VAC 47-63 Hz
Dimensions:	17.3 in x 7 in x 24.4 in (w x h x d), 3.5 RU (440 x 178 x 620 mm)
Weight:	40.6 lbs (18.1 kg) (bench), 28.9 lbs (13.1 kg) (rack)

## Communications

Communication ports:	USB port (digital communication) TCP/IP Ethernet Network connection (optional) RS232 Port 1: Digital Communication RS232 Port 2: Multidrop port 25 pin I/O port (Analogue outputs, Analogue inputs, Digital Status inputs, Digital Status Outputs)
Analogue Outputs:	Menu selectable current or voltage output 0-20mA, 4-20 mA. or 0-5 VDC Menu selectable offset of 0%, 5% or 10%. Auto-ranging from 0-50 ppb to 0-20ppm (between two user specified full scale values)
Analogue inputs:	3 analogue inputs, 0-5v, 160µV resolution
Digital Status inputs:	8 logic level inputs
Digital Status outputs:	8 open collector outputs

## Data Logging

Removable USB flash memory that stores data in the following formats:

- Instantaneous data from: 1, 3, 5, 10, 30, or 60 minute intervals
- Average data from: 1, 3, 5, 10, 15, 30 minutes, 1, 4, 8, 12, or 24 hours.
- Data storage of 8 years of 12 parameters, 1 minute data on 1 gigabyte memory

## Options

- Internal low power pump
- External AC powered pump (capable of operating 3 analyzers, excluding NO<sub>x</sub>)
- Dual particulate filter
- TCP/IP network communication
- High pressure span/zero valves

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