



Serinus[®]50

Sulfur Dioxide Analyser

The Serinus[®]50* sulfur dioxide (SO₂) analyser delivers precise and reliable performance at excellent value.

It uses proven pulsed UV fluorescent radiation technology to measure SO₂ in ambient air (LDL < 0.3 ppb, range 0 to 20 ppm).

* Acoem Serinus50 formerly known as Ecotech Serinus50.

Approvals

- USEPA approval (EQSA-0809-188)
- EN approval TÜV(0000040205-02)
- Australian Standard (AS 3580.5.1-2011)
- Russian approval (56263-14)
- French approval LSCQA
- Ukraine approval (12/3/B/24/295-17)
- Chinese Pattern Approval (JJF1361-2012)
- Korean approval NIER(AACMS-2017-04)

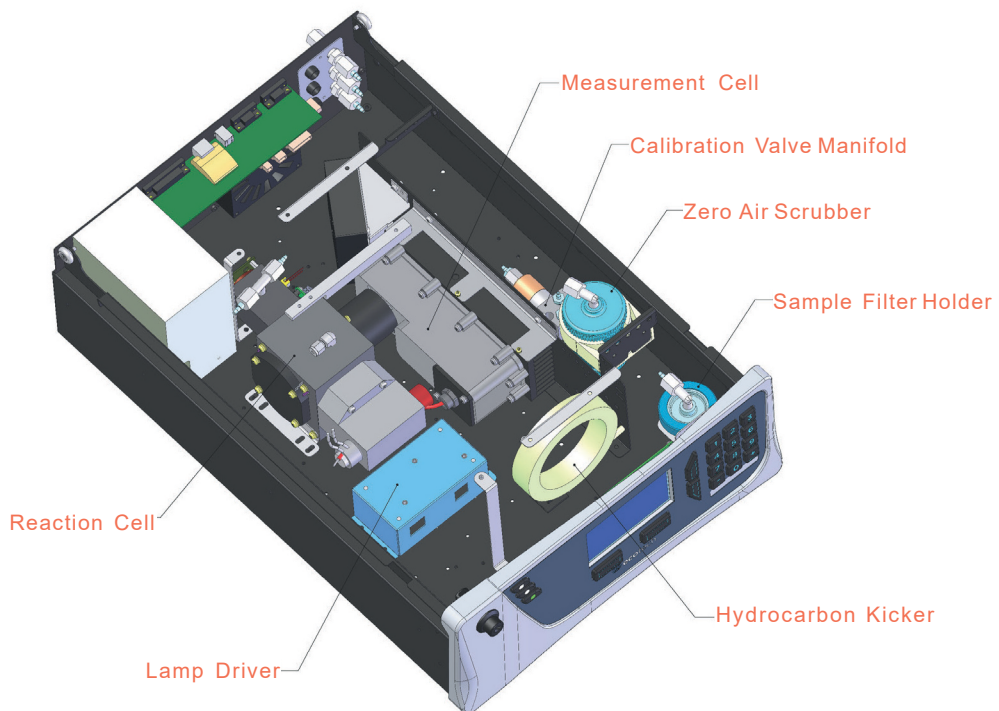
Benefits

The Serinus® range of analysers have been designed using our experience & knowledge gained from operating large air quality monitoring networks for more than 45 years. The result, instruments that integrate seamlessly into continuous monitoring networks.

- Reliable performance complemented with a two year warranty
- Minimise time spent on site performing maintenance through superior remote instrument control, diagnostic viewing & calibration
- Comprehensive data logging & remote viewing of over 200 operational parameters
- Versatile interfacing through RS232, analog & digital I/O & optional TCP/IP & Bluetooth
- Easy setup through an intuitive menu system, advanced GUI & a large alphanumeric keypad with tactile keys
- Instant status indication via illuminated instrument status light buttons on the front panel
- Removable flash memory stores ~10 years of data, including up to 12 individual parameters & 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 & emailing of data is made even simpler using optional Bluetooth connectivity combined with the Serinus Remote Android App
- Built-in digital display measuring values & having function of measuring values transferred to graphical trend display
- Enhanced operator safety through the use of 12 VDC internal voltages
- Reduced cost of spare parts, accessories & consumable items through extensive use of standard components across the Serinus range
- Rack slide design makes accessing internal components & removing the analyser from a rack cabinet easy
- AQMS power usage can be reduced due to the instrument's low power demand & its ability to operate over a wide temperature range.

Specifications

Range:	0 - 20 ppm (autoranging)
Concentration units:	mg/m ³ , µg/ m ³ , ng/m ³ , ppm, ppb or ppt
Noise:	< 0.15 ppb
Lower detectable limit:	< 0.3 ppb 0.2 %of concentration whichever is greater
Linearity:	< 1 %of full scale
Precision:	0.5 ppb or 0.5 %of reading whichever is greater
Zero drift:	24 hours: < 0.5 ppb 7 days: < 0.5 ppb
Span drift:	24 hours: < 0.5 %of reading or < 0.5 ppb whichever is greater
Response time:	60 seconds to 95 %
STPreference:	0 °C, 20 °C, 25 °C at 101.3 kPa
Sample flow rate:	725 cc/min
Temperature range:	0 - 40 °C
Power:	100 - 240 VAC, 50 - 60 Hz (autoranging)
Power consumption:	255 VA (max at start-up) 180 VA (nominal)
Dimensions:	429 x 175x 638 mm
Rack spacing:	3.5 RU
Weight:	18.1 kg



Communication

- #1 RS232port (supports all protocols*)
- #2 RS232port (supports all protocols* & multidrop)
- USBport (Advanced protocol only)
- Bluetooth (Advanced protocol only)
- TCP/IPnetwork port (optional, supports all protocols*).

* Available protocols: Modbus (RTU/TCP), BayernHessen, EC9800 or Advanced

Communication analog & digital I/O port:

- 3 x analog outputs (current or voltage), 12 bit resolution user definable range (between two user specified points)
Current range: 0 - 20 mA, 2 - 20 mA or 4 - 20 mA
Voltage range: 0 - 5 V, 0 - 10 V (voltage offset of 0 V, 0.25 V or 0.5 V)
- 3 x analog inputs (scalable), 0 - 5 V, 16 bit resolution
- 8 x logic level digital control inputs
- 8 x open collector digital status outputs.

Data logging

- 8 GBremovable USBflash memory drive that stores the internal data logger, event log, automatic/manual configuration backup & automatic/manual parameter list save
- Internal data logger (can log up to 12 of 200+ parameters)
- Logger interval (1 second to 24 hours)
- Storage capacity ~ 10 years (set to 1 minute interval).

Options & accessories

- TCP/IPNetwork Port
- Bluetooth
- Dual Sample (particulate) Filter
- High Pressure Span (for direct cylinder calibration)
- High Pressure Zero (for direct cylinder calibration)
- Test Lamp (for PMTdiagnostics)
- Internal DC Pump (long life, low power, minimal maintenance)
- Metric Fitting Kit (to connect 6 mm tube to rear ports)
- 19" Rack Mount Kit
- External Pump (240 or 110 VAC)
- Annual Maintenance Kit
- Printed User Manual (a soft copy of the user manual is supplied on USBwith each analyser).



Specifications subject to change without notice. Images used are for illustrative purposes only. All trademarks and registered trademarks are the property of their respective owners.

© 2023 Acoem and all related entities. All rights reserved. 20230220

acoem.com



XEARPRO

Via delle Primule, 16
Cogliate (MB) - 20815, Italia

✉ info@xearpro.com

☎ +39 02 9646.0317

💻 xearpro.it