Serinus® 30H

Carbon Monoxide Analyser – High level

Based on the Acoem Serinus 30 carbon monoxide analyser, the Acoem Serinus 30H* measures higher levels of CO in ambient air.

The three available choices for the analyser range are:

· 0 – 1000 ppm
· 0 – 3000 ppm
· 0 – 5000 ppm

* Acoem Serinus 30H formerly known as Ecotech Serinus 30H.

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Approvals

Based on the Serinus 30 analyser which has the following approvals:

- US EPA approval (RFCA-0509-174)
- EN approval TÜV (0000040203-02)
- Australian Standard (AS 3580.7.1-2011)
- Russian approval (56262-14)

- French approval LSCQA
- Ukraine approval (12/3/B/24/295-17)
- Chinese Pattern Approval (JJF1364-2012)
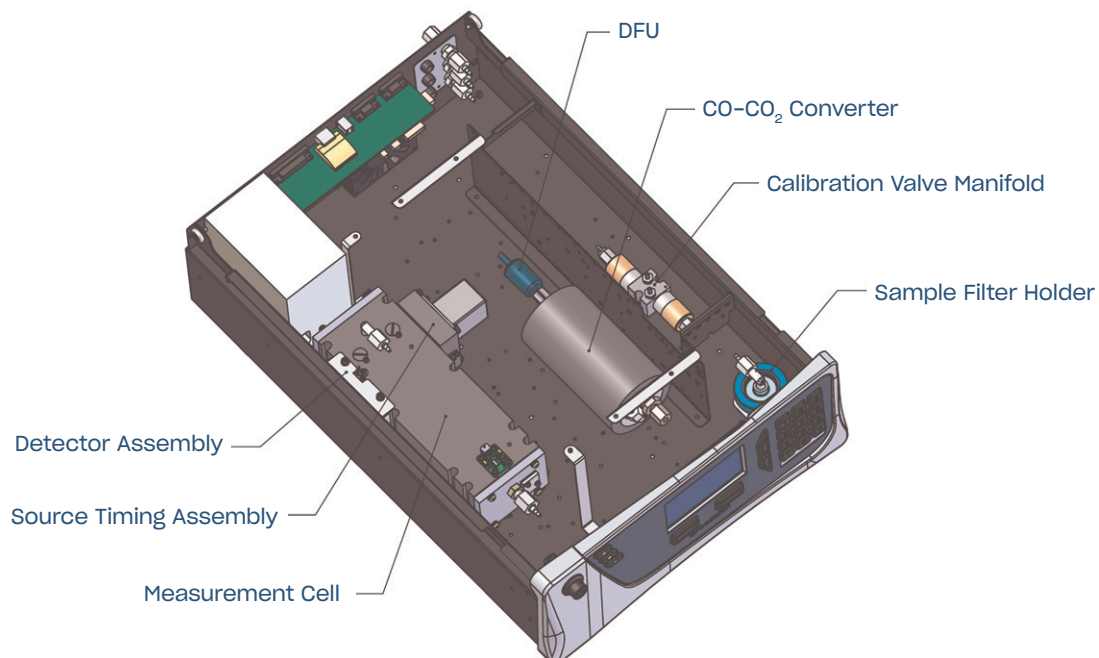- Korean approval NIER (AACMS-2017-02)

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 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 and calibration
- Comprehensive data logging and remote viewing of over 200 operational parameters
- Versatile interfacing through RS232, USB, analog & digital I/O & optional TCP/IP & Bluetooth
- Easy setup through an intuitive menu system, advanced GUI and 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 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 & emailing of data is made even simpler using optional Bluetooth connectivity combined with 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 gas analyser 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 - 5000 ppm
Concentration units:	mg/m^3, $\mu g/m^3$, ng/m^3, ppm, ppb or ppt
Noise:	< 0.25 ppm or 0.1 % of concentration reading whichever is greater
Lower detectable limit:	< 0.5 ppm
Linearity:	< 0.5 % of full scale
Zero drift:	24 hours: < 2 ppm
Span drift:	24 hours: < 1 % of reading or 2 ppm whichever is greater
Response time:	60 seconds to 95 %
STP reference:	0 °C, 20 °C, 25 °C at 101.3 kPa
Sample flow rate:	1000 cc/min
Temperature range:	0 - 40 °C
Power:	100 - 240 VAC, 50 - 60 Hz (autoranging)
Power consumption:	260 VA (max at start-up)
	150 VA (nominal)
Dimensions:	429 x 175 x 638 mm
Rack Spacing:	3.5 RU
Weight:	17.8 kg

DFU
CO-CO_2 Converter
Calibration Valve Manifold
Sample Filter Holder
Detector Assembly
Source Timing Assembly
Measurement Cell

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Communication

- #1 RS232 port (supports all protocols*)
- #2 RS232 port (supports all protocols* & multidrop)
- USB port (Advanced protocol only)
- Bluetooth (Advanced protocol only)
- TCP/IP network port (optional, supports all protocols*).

* Available protocols: Modbus (RTU/TCP), Bayern Hessen, 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 GB removable USB flash memory drive that stores the internal data logger, event log, automatic/manual configuration backup and 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/IP Network Port
- Bluetooth
- Dual Sample (particulate) Filter
- High Pressure Span (for direct cylinder calibration)
- High Pressure Zero (for direct cylinder calibration)
- Internal DC Pump (long life, low power, minimal maintenance)
- Integrated CO_2 Sensor (range: 0 – 2000 ppm, accuracy: ± 2 %)
- 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 USB with each analyser).

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ISO 9001 Quality Management Systems CERTIFIED

ISO 45001 Occupational Health and Safety Management CERTIFIED

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