



GAS-1055

Hydrogen Sulfide Analyzer

The Met One Instruments GAS-1055 Hydrogen Sulfide (H₂S) analyzer delivers precise and reliable performance at excellent value. It uses proven UV fluorescent radiation technology and an internal thermal catalytic converter to measure H₂S in ambient air (LDL < 0.3 ppb, range 0-2 ppm).

H₂S is measured by passing the sample through a SO₂ scrubber which removes any SO₂, the H₂S is then converted to SO₂ using the internal H₂S converter and measured using the pulsed fluorescence technique.

Approvals

Based on GAS-1050 analyzer that has the following approvals:

- US EPA approval (EQSA-0809-188)

Benefits

The Met One range of gas analyzers have been designed using experience and knowledge gained from operating large air quality monitoring networks for more than 40 years. The result, instruments that integrate seamlessly into continuous monitoring networks.

- Guaranteed performance with a 2 year warranty
- Instant display of operational status using illuminated traffic lights on the front panel
- 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
- Easier setup through an intuitive menu system with “Quick Menu”, advanced GUI and a large keypad with tactile keys
- 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 Android App
- Enhanced operator safety through the use of 12 VDC internal voltages
- Reduced cost of spare parts, accessories and consumable items through extensive use of standard components across the Met One analyzer range
- Rack slide design makes accessing internal components and removing the analyzer from a rack cabinet easy
- AQMS power usage power usage can be reduced due to the instrument’s low power demand and its ability to operate over a wide temperature range
- Built in digital display measuring values and having function of measuring values transferred to graphical trend display.

Specifications

Ranges:	H ₂ S: 0 – 2 ppm (SO ₂ < 500 PPB)
Concentration units:	User selectable mg/m ³ , µg/ m ³ , ppm, ppb, ppt
Noise:	< 0.15 ppb 0.0 to > 20000 Mm ⁻¹
Lower detectable limit:	< 0.3 ppb or 0.2 % of concentration whichever is greater
Linearity:	< 1 % of full scale
Precision:	0.5 ppb
Zero drift:	24 hours: < 0.5 ppb 7 days: < 0.5 ppb
Span drift:	7 days: < 0.5 % of reading
Response time:	60 seconds to 95 %
STP reference:	0 °C, 20 °C, 25 °C at 101.3 kPa
Sample flow rate:	725 cc/min
Temperature range:	0 – 40 °C
Power:	99 – 132 VAC, 198 – 264 VAC, 47 – 63 Hz
Dimensions:	429 x 175 x 638 mm
Rack Spacing:	3.5 RU
Weight	19 kg

Communication

- 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.

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

Inputs / outputs

25 pin I/O port

- Menu selectable current or voltage output
0 - 20 mA, 4 - 20 mA, or 0 - 5 VDC (opt 0 - 10 VDC)
- Menu selectable offset of 0 %, 5 % or 10 %
- Auto-ranging from 0 - 50 ppb to 0 - 20 ppm
(between 2 user specified full scale values)
- 3 scalable analog inputs, 0 - 5 v, 160 μ V 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 analyzers, excluding NO_x)
- Dual filter (particulate)
- Rack slide kit
- TCP/IP network port
- High pressure zero/span valves
- SO₂ Scrubber
- Printed manual - electronic manual supplied with analyzer
- Internal long life, low power maintenance free pump (max 6 watts).



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