GAS-1044

Ammonia Analyzer
N_0, NO_2, NO_x, NH_3 Analyzer

The GAS-1044 Ammonia Analyzer from Met One Instruments Powered by Acoem delivers precise and reliable performance at an excellent value.

It uses proven chemiluminescence technology and an external thermal catalytic converter to measure NO, NO_2, NO_x and NH_3 in ambient air.

Approvals

- **US EPA approval (RFNA-0809-186)**

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.

- Reliable performance backed up by a two-year warranty.

- Minimize 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, TCP/IP, and optional Bluetooth.

- Easier setup through an intuitive menu system with "Quick Menu", advanced GUI, and a large keypad with tactile keys.

- Instant display of operational status using illuminated traffic lights 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, and emailing of data is made even simpler using optional 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 range.

- Rack slide design makes accessing internal components and removing the analyzer from a rack cabinet easy.

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Specifications

Range:	0 – 20 ppm (auto-ranging)
	(analog ranges 0 – 50 ppb to 0 – 20 ppm)
	(NH3 range dictated by external converter; usually ~ 2 ppm)
Concentration display:	User selectable mg/m^3, µg/m^3, ppm, ppb or ppt
Noise:	< 0.2 ppb
Lower detectable limit:	< 0.4 ppb or 0.5 % of reading whichever is greater
Linearity:	< 1 % of full scale
Precision:	0.4 ppb or 0.5 % of reading whichever is greater
Zero drift:	24 hours: < 0.4 ppb
	7 days: < 0.4 ppb
Span drift:	7 days: < 1 % of reading or 0.4 ppb whichever is greater
STP reference:	0 °C, 20 °C, 25 °C at 101.3 kPa
Sample flow rate:	900 cc/min (total for 3 channels)
Temperature range:	0 to 40 °C
Power:	100 – 240 VAC, 50 – 60 Hz (auto-ranging)
Power consumption:	265 VA (max at start-up)
	190 VA (after warm-up)
Dimensions:	429 x 175 x 638 mm
Rack Spacing:	3.5 RU
Weight:	21.85 kg

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Communication

- USB port (digital communication).
- TCP/IP Ethernet network connection.
- Bluetooth (optional, digital communication via Android App).
- RS232 Port 1: Digital communication.
- RS232 Port 2: Multidrop port.
- Modbus RTU/TCP protocol, advanced.
- 25 pin I/O port (analog outputs, analog inputs, digital status inputs, digital status outputs).

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 µV resolution.
- 8 logic level inputs/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 10 years of 12 parameters, 1 minute data on 8 GB memory.

Options & accessories

- HTO1000N NH_3 Converter.
- External AC powered pump.
- Bluetooth.
- Rack Slide Kit, Dual filter (particulate).
- High Pressure Zero/Span Valves.
- Printed User Manual (digital version of the User Manual supplied on USB drive with analyzer).

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