

# GAS-1040

## Oxides of Nitrogen Analyzer

The GAS-1040 Oxides of Nitrogen (NO<sub>x</sub>) Analyzer from Met One Instruments Powered by Acoem delivers precise and reliable performance at an excellent value.

It uses proven chemiluminescence technology to measure NO, NO<sub>2</sub>, and NO<sub>x</sub> in ambient air (LDL < 0.4 ppb, range 0 to 20 ppm).

## Approvals

- US EPA approval (RFNA-0809-186)

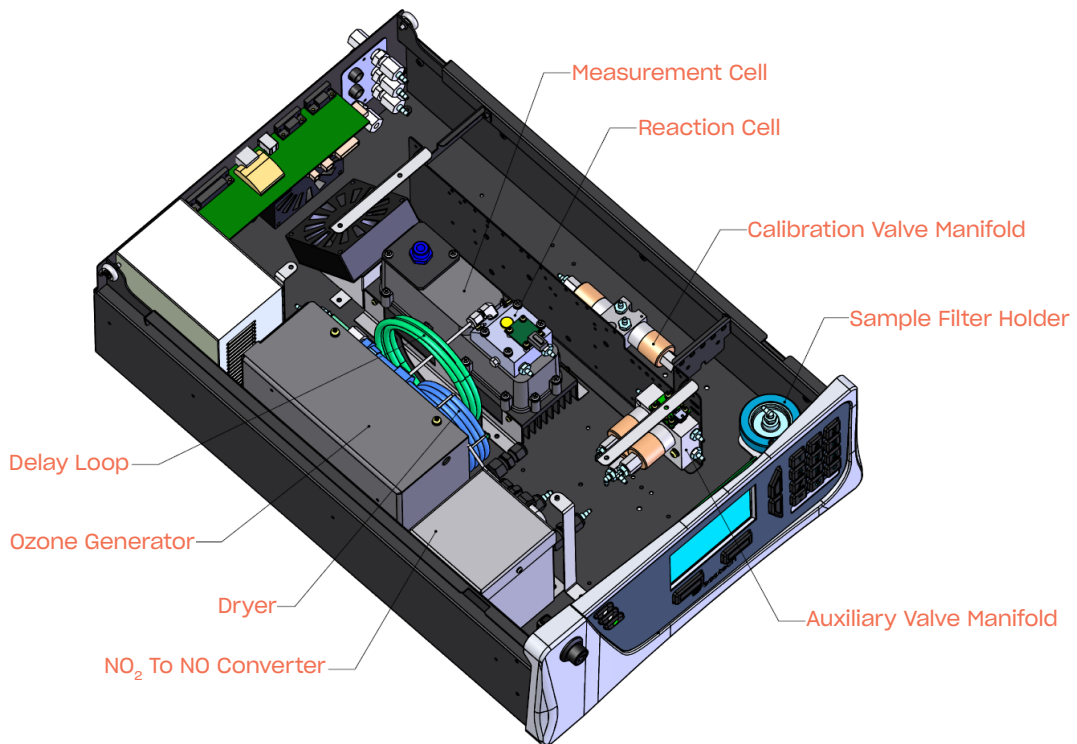
## Benefits

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 and digital I/O, TCP/IP, and optional 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, and emailing of data is made even simpler using optional Bluetooth connectivity combined with Android App.
- Built-in digital display shows current readings and has the ability to track and chart these values on a graphical trend display.
- 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 can be reduced due to the instrument's low power demand and its ability to operate over a wide temperature range.

## Specifications

<b>Range:</b>	0 to 20 ppm (auto-ranging)
<b>Concentration units:</b>	mg/m <sup>3</sup> , µg/m <sup>3</sup> , ng/m <sup>3</sup> , ppm, ppb or ppt
<b>Noise:</b>	< 0.2 ppb
<b>Lower detectable limit:</b>	< 0.4 ppb
<b>Linearity:</b>	± 1 % of full scale
<b>Precision:</b>	0.4 ppb or 0.5 % of reading whichever is greater
<b>Zero drift:</b>	24 hours: < 0.5 ppb 7 days: < 0.5 ppb
<b>Span drift:</b>	7 days: < 1 % of reading or 0.5 ppb whichever is greater
<b>Response time:</b>	15 seconds to 95 %
<b>STP reference:</b>	0 °C, 20 °C, 25 °C at 101.3 kPa
<b>Sample flow rate:</b>	600 cc/min (total for 2 channels)
<b>Temperature range:</b>	0 to 40 °C
<b>Power:</b>	100 – 240 VAC, 50 – 60 Hz (auto-ranging)
<b>Power consumption:</b>	265 VA (max at start-up) 190 VA (nominal)
<b>Dimensions:</b>	429 x 175 x 638 mm
<b>Rack Spacing:</b>	3.5 RU
<b>Weight:</b>	21.9 kg



## Communication

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

\*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 2 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

- Internal Sample Dryer.
- Bluetooth.
- Dual Sample (particulate) Filter.
- High Pressure Span (for direct cylinder calibration).
- High Pressure Zero (for direct cylinder calibration).
- Test Lamp (for PMT diagnostics).
- Metric Fitting Kit (to connect 6 mm tube to rear ports).
- 19" Rack Mount Kit.
- External Pump (240 or 110 VAC).
- External Charcoal Scrubber.
- Annual Maintenance Kit.
- High Level Option.
- Printed User Manual (a digital copy of the User Manual is supplied on USB drive with each analyzer).



POWERED BY ACOEM

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