



# GAS-1044

## Ammonia Analyzer

### NO, NO<sub>2</sub>, NO<sub>x</sub>, NH<sub>3</sub> Analyzer

The Met One Instruments GAS-1044 analyzer delivers precise and reliable performance at excellent value.

It uses proven chemiluminescence technology and an external thermal catalytic converter to measure NO, NO<sub>2</sub>, NO<sub>x</sub> and NH<sub>3</sub> in ambient air.

## Approvals

- US EPA approval (RFNA-0809-186)

## Benefits

The Met One range of 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 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, Bluetooth, analog and optional TCP/IP
- 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 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.

## Specifications

|                                |   |
|--------------------------------|---|
| <b>Range:</b>                  | 0 - 20 ppm (autoranging)<br>(analog ranges 0 - 50 ppb to 0 - 20 ppm)<br>(NH <sub>3</sub> range dictated by external converter; usually ~ 2 ppm) |
| <b>Concentration display:</b>  | User selectable mg/m <sup>3</sup> , µg/m <sup>3</sup> , ppm, ppb or ppt   |
| <b>Noise:</b>                  | < 0.2 ppb   |
| <b>Lower detectable limit:</b> | < 0.4 ppb or 0.5 % of reading whichever is greater  |
| <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: < 0.4 ppb<br>7 days: < 0.4 ppb  |
| <b>Span drift:</b>             | 7 days: < 1 % of reading or 0.4 ppb whichever is greater  |
| <b>STP reference:</b>          | 0 °C, 20 °C, 25 °C at 101.3 kPa   |
| <b>Sample flow rate:</b>       | 900 cc/min (total for 3 channels)   |
| <b>Temperature range:</b>      | 0 to 40 °C  |
| <b>Power:</b>                  | 100 - 240 VAC, 50 - 60 Hz (autoranging)   |
| <b>Power consumption:</b>      | 265 VA (max at start-up)<br>190 VA (after warm-up)  |
| <b>Dimensions:</b>             | 429 x 175 x 638 mm  |
| <b>Rack Spacing:</b>           | 3.5 RU  |
| <b>Weight:</b>                 | 21.85 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
- 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 %
- Autoranging from 0 - 50 ppb to 0 - 20 ppm  
(between 2 user specified full scale values)
- 3 scalable analog inputs, 0 - 5 V, 160  $\mu$ V 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

- HT01000N NH<sub>3</sub> Converter
- External AC powered pump
- TCP/IP network port
- Rack slide kit, Dual filter (particulate)
- High pressure zero/span valves
- Printed manual - electronic manual supplied with analyzer.



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