

GMT Toxic Gas Detection Head

Nitric Oxide (NO)



UTILISES WELL PROVEN AND RELIABLE SENSOR TECHNOLOGY



SUITABLE FOR HAZARDOUS AREA USE (WITH SUITABLE ZENER BARRIER)  **II 1 G EEx ia IIC T4**



INDUSTRY STANDARD ANALOGUE 4 ~ 20 mA O/P



SIMPLE CONSTRUCTION ALLOWS EASY SENSOR REPLACEMENT



VERY ROBUST STAINLESS STEEL CONSTRUCTION



GMT Detection Head

The GMT range of detection heads provides a comprehensive range of toxic gas detectors for connection to our gas detection control panels. They are designed to provide a rugged, reliable, easy to maintain solution to your fixed gas detection needs. They can be used in safe area locations or when used with a suitable zener barrier device in all flammable hazardous areas as they are also designed to be intrinsically safe (ia).

Gas Information Nitric oxide (NO)

Nitric oxide or nitrogen monoxide is a chemical compound with chemical formula NO.

Nitric oxide is a colourless, poisonous gas, produced as an intermediate during the manufacture of nitric acid from ammonia or atmospheric nitrogen and as a product of cellular metabolism. In the body, nitric oxide is involved in oxygen transport to the tissues, the transmission of nerve impulses, and other physiological activities

This gas is an important signalling molecule in the body of mammals, including humans, and is an extremely important intermediate in the chemical industry.

It is also an air pollutant produced by cigarette smoke, automobile engines and power plants.

Nitric oxide should not be confused with nitrous oxide (N₂O), a general anaesthetic and greenhouse gas, or with nitrogen dioxide (NO₂) which is another air pollutant.

NO Relative Density (Air =1) = 1.036

Typical NO Detection head location would be in the "breathing zone" (approx 1.5 meters).


EH40 workplace exposure recommended exposure limits :-

Long term exposure limit (8hour TWA reference period) not stated

Short term exposure limit (15 min TWA reference period) not stated



General Details

| | |
|--------------------|--|
| Type: | GMT—Nitric Oxide |
| Part number | 59550—0-100 parts per million (PPM) |
| Certification |  II 1 G EEx ia IIC T4 Certificate BAS00ATEX1042X |
| Ingress Protection | IP 54 (sensor electronics) |
| Sensor Type | Electrochemical |
| Mounting Thread | 20mm. 1.5mm Pitch |
| Supply Voltage | 24 Vdc $\pm 10\%$ |
| Connections | Red – N.C. Yellow – Signal/supply. Blue – 0v. Green – Screen |
| Output | 4~20 mA Linear 2/3 wire |
| Material | Stainless Steel EN316 |
| Weight | 166gms. |
| Dimensions: | Body 48mm. long x 42mm. dia. |
| EMC Regulations | EC Directive 89/336/EEC |
| Low voltage | EC Directive 73/23/EEC |

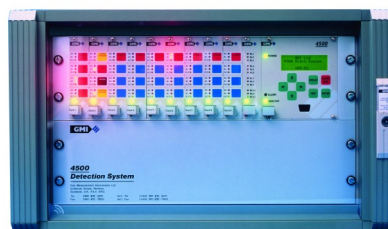
Compatible GMI control panels



SPGA



ACTIVE-8



4500 GAS ALARM



ACTIVE-80

Replacement Sensor
Calibration Cap Assembly

GMI Part number 12419
GMI Part number 59614



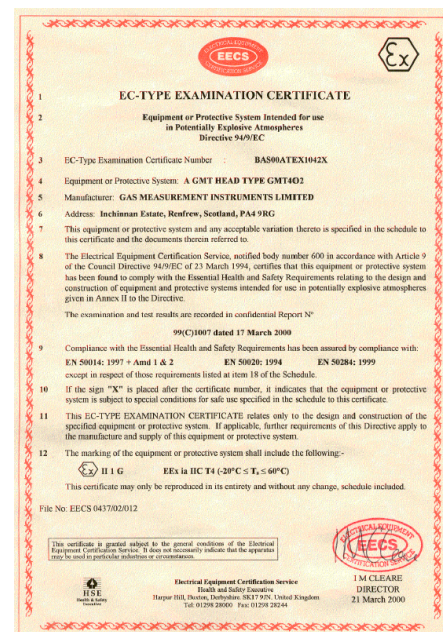
Sensor Specification

| | |
|-------------------------|--|
| Nominal Range | 0-100 ppm |
| Maximum Overload | 1500 ppm |
| Expected Operating Life | 36 Months in Air at STP |
| Temperature Range | -20°C. to +50°C. |
| Pressure Range | Atmospheric $\pm 10\%$ |
| Response Time | Typically 12 seconds to T90 Typically 4 seconds to T50. |
| Relative Humidity Range | 15 to 90% non-condensing |
| Repeatability | $\pm 2\%$ of reading |
| Zero stability | $\pm 1\%$ F.S.D. |
| Output Linearity | Linear |
| Warranty Life | 12 Months from date of despatch |
| Calibration frequency | 6 months recommended |



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CoGDEM
The Council of Gas Detection and
Environmental Monitoring



As a BS EN ISO 9001:2008 approved company, GMI Ltd's quality assurance programmes demand the continuous assessment and improvement of all GMI products. Information in this leaflet could thus change without notification and does not constitute a product specification. Please contact GMI or their representative if you require more details.



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)330 088 0560

Fax: +44 (0)1245 808399

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.