

GMT Toxic Gas Detection Head

Hydrogen Cyanide (HCN)



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 Hydrogen Chloride (HCN)

Hydrogen cyanide is a colourless gas or bluish-white liquid with a bitter almond odour. An air odour threshold concentration for hydrogen cyanide of 0.58 part per million (ppm) parts of air has been reported.

The following applications may involve hydrogen cyanide and lead to worker exposures to this substance:

- The manufacture and transportation of hydrogen cyanide
- Use in fumigation of ships, structures, and agricultural crops and as a nematocide (a compound used to kill nematode parasites in plants)
- Liberated during use of cyanide salts or solutions in metal treatment operations, blast furnace and coke oven operations, metal ore processing, and photoengraving operations
- Use in production of intermediates in synthesis of resin monomers, acrylic plastics, acrylonitrile, Nylon 66, cyanide salts, lactic acid, nitrates, chelating agents, dyes, pharmaceuticals, and specialty chemicals
- Liberated during petroleum refining and electroplating use in the manufacture of silver and metal polishes, and electroplating solutions, and as a reagent

HCN Relative Density (Air =1) = 0.94

Typical HCN 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) None Stated


Short term exposure limit (15 min TWA reference period) 10 ppm



GAS MEASUREMENT INSTRUMENTS LTD

"A Customer For Life"

General Details

Type:	GMT—Hydrogen Cyanide
Part number	59530—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

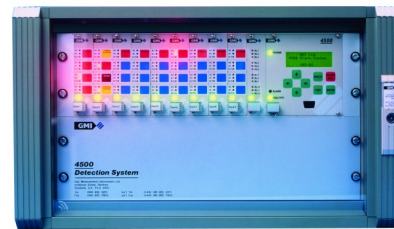
Compatible GMI control panels



SPGA



ACTIVE-8



4500 GAS ALARM



ACTIVE-80

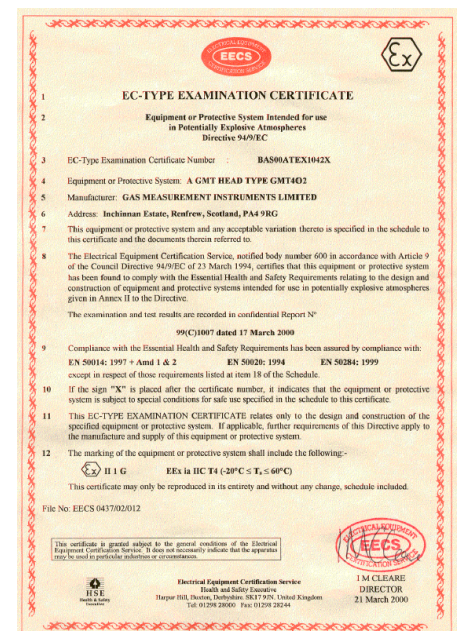
Replacement Sensor
Calibration Cap Assembly

GMI Part number 59584
GMI Part number 59614



Sensor Specification

Nominal Range	0-100 ppm
Maximum Overload	200 ppm
Expected Operating Life	24 Months in Air at STP
Temperature Range	+5°C. to +35°C.
Pressure Range	Atmospheric $\pm 10\%$
Response Time	Typically 35 seconds to T90 Typically 10 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





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

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