GMT Toxic Gas Detection Head

Ammonia (NH₃)













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 Ammonia (NH₃)

At room temperature, Ammonia is a colourless, highly irritating gas with a pungent, suffocating odour.

In pure form, it is known as anhydrous ammonia and is hygroscopic (readily absorbs moisture).

Ammonia has alkaline properties and is corrosive.

Ammonia gas dissolves easily in water to form ammonium hydroxide, a caustic solution and weak base.

Ammonia gas is easily compressed and forms a clear liquid under pressure. It is usually shipped as a compressed liquid in steel containers.

Ammonia is not highly flammable, but containers of ammonia may explode when exposed to high heat.

NH₃ Relative Density (Air =1) = 0.59

Typical NH₃ Detection head location would be at the highest level available.

EH40 workplace exposure recommended exposure limits :-

Long term exposure limit (8hour TWA reference period) 25 ppm Short term exposure limit (15 min TWA reference period) 35 ppm



General Details

Type:

Part number

GMT-Ammonia

59560—0-50 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 ±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

EC-TYPE EXAMINATION CERTIFICATE

tective System: A GMT HEAD TYPE GMT402

an Estate, Renfrew, Scotland, PA4 9RG

BASOOATEX1042X

Replacement Sensor
Calibration Cap Assembly

GMI Part number 59588 GMI Part number 59614

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Sensor Specification

Nominal Range 0-50 ppm

Expected Operating Life

Temperature Range Pressure Range

Response Time

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Relative Humidity Range

Repeatability
Zero stability

Zero stability

Output Linearity

Warranty Life

Calibration frequency

>24 Months in Air at STP

-20°C. to +40°C.

Atmospheric ±10 %

Typically 30 seconds to T50

15 to 90% non-condensing

±2% of reading

±1% F.S.D.

Linear

12 Months from date of despatch

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.

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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.