



# 防爆合格证

证号: GYJ20.1019X

由 GASTRON Co., Ltd.

制造的产品:

(地址: 23, Gunpocheomdansaneop 1-ro, Gunpo-si, Gyeonggi-do, Korea, Republic of)

名称 便携式多气体探测器

型号规格 GFM-400-**a**-**b**

防爆标志 Ex ia IIC T4 Ga

产品标准 /

图样编号 Ex-A19060018

经图样及技术文件的审查和样品检验, 确认上述产品符合 GB 3836.1-2010、GB 3836.4-2010、GB 3836.20-2010 标准, 特颁发此证。

本证书有效期: 2020年2月14日至2025年2月13日

备注 1. 安全使用注意事项见本证书附件。  
2. 证书编号后缀“X”表明产品具有安全使用特殊条件, 内容见本证书附件。

站长

国家级仪器仪表防爆安全监督检验站  
颁发日期二〇二〇年二月十四日



本证书仅对与认可文件和样品一致的产品有效。

地址: 上海市漕宝路103号  
邮编: 200233

网址: www.nepsi.org.cn  
Email: info@nepsi.org.cn

电话: +86 21 64368180  
传真: +86 21 64844580



# EXPLOSION PROTECTION CERTIFICATE OF CONFORMITY

Cert NO.GYJ20.1019X

This is to certify that the product

Portable Multi Gas Detector

manufactured by **GASTRON Co., Ltd.**

(Address:23, Gunpocheomdansaneop 1-ro, Gunpo-si, Gyeonggi-do, Korea, Republic of)

which model is **GFM-400- a - b**

Ex marking **Ex ia IIC T4 Ga**

product standard /

drawing number **Ex-A19060018**

has been inspected and certified by NEPSI, and that it conforms to **GB 3836.1-2010,GB 3836.4-2010,GB 3836.20-2010**

This Approval shall remain in force until **2025.02.13**

**Remarks** 1.Conditions for safe use are specified in the attachment(s) to this certificate.  
2.Symbol "X" placed after the certification number denotes specific conditions of use, which are specified in the attachment(s) to this certificate.

**Director**

**National Supervision and Inspection Centre for  
Explosion Protection and Safety of Instrumentation**

Issued Date **2020.02.14**



This Certificate is valid for products compatible with the documents and samples approved by NEPSI.

103 Cao Bao Road  
Shanghai 200233, China

<http://www.nepsi.org.cn>  
Email: [info@nepsi.org.cn](mailto:info@nepsi.org.cn)

Tel: +86 21 64368180  
Fax: +86 21 64844580

# 国家级仪器仪表防爆安全监督检验站

## National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation

(GYJ20.1019X )

(Attachment I )

### Attachment I to GYJ20.1019X

Portable Multi Gas Detector typed GFM-400-**■****■** manufactured by GASTRON Co., Ltd. has been certified by National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation (NEPSI), this product accords with following standards:

GB 3836.1-2010 Explosive atmospheres-Part 1: Equipment-General Requirements

GB 3836.4-2010 Explosive atmospheres-Part 2: Equipment protection by intrinsic safety "i"

GB 3836.20-2010 Explosive atmospheres-Part 20: Equipment with equipment protection level (EPL) Ga

The Ex marking is Ex ia IIC T4 Ga. The certificate number is GYJ20.1019X.

Type designation:

GFM-400-**■****■**

**■**: MM2.5, MM100, MP1.5, MP2.5, PP1.5, PP2.5 or blank.

**■**: Not related to explosion protection or blank.

#### 1. Special condition for safe use

Suffix "X" denotes special condition for safe use:

1.1 Battery used in the product is not changeable.

1.2 The product is provided with the anti-static coating film covering over the LCD window. Periodic inspection of this coating film is required to ensure no degradation, delamination, abrasions or other deformities to this surface. Care must be taken to avoid exposure to excessive heat, harsh chemicals or solvents, sharp edges and abrasive surfaces. Clean only with a damp cloth.

#### 2. Condition for safe use

2.1 The ambient temperature of product: -20°C~+50°C.

2.2 In order to avoid damage to the product, the user shall not change any parts of the product and the manufacturer shall be consulted when there is any problem during the usage.

2.3 During the installation, using and maintenance, the user shall following the instruction and following standards:

GB3836.13-2013 Explosive atmospheres-Part 13: Equipment repair, overhaul and reclamation



GB/T3836.15-2017 Explosive atmospheres-Part 15: Eletrical installations design, selection and erection

GB/T3836.16-2017 Explosive atmospheres-Part 16: Eletrical installations inspectio and maintenance

GB50257-2014 Code for construction and acceptance of electric device for explosion atmospheres and fire hazard electrical equipment installation engineering


### 3. Manufacturer's Responsibility

3.1 Special condition for safe use specified above should be included in the instruction manual.

3.2 Manufacturing should be done according to the documentation approved by NEPSI.

3.3 Any modification with influence on the type of protection should be submitted to NEPSI before application.

3.4 Following items should be added to the nameplate

- a) NEPSI logo 
- b) Ex marking
- c) Number of certificate
- d) Ambient temperature range

**National Supervision and Inspection Center  
for Explosion Protection and Safety of Instrumentation**

February 14<sup>th</sup>, 2020



# 国家级仪器仪表防爆安全监督检验站

## National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation

(GYJ20.1019X)

(Attachment I)

### GYJ20.1019X 防爆合格证附件 I

由GASTRON Co., Ltd.生产的GFM-400-**a**-**b**型便携式多气体探测器,经国家级仪器仪表防爆安全监督检验站(NEPSI)检验,符合下列标准:

GB 3836.1-2010 爆炸性环境 第1部分:设备 通用要求

GB 3836.4-2010 爆炸性环境 第4部分:由本质安全型“i”保护的设备

GB 3836.20-2010 爆炸性环境 第20部分:设备保护级别(EPL)为Ga级的设备  
产品防爆标志为: Ex ia IIC T4 Ga, 防爆合格证号为GYJ20.1019X。

本证书认可的产品为:

GFM-400-**a**-**b**, 其中:

**a** 可选代码为: MM2.5, MM100, MP1.5, MP2.5, PP1.5, PP2.5 或空。

**b** 为与防爆无关代码或空。

#### 一、 产品安全使用特定条件

证书编号后缀“X”表明产品具有安全使用特殊条件:

1. 用户不得自行更换电池。
2. 产品LCD屏幕上覆盖有防静电保护膜,使用过程中须进行周期性检查,确认保护膜无分解,脱落,划伤或变形。使用过程中须避免高温,化学试剂或溶剂,尖锐边缘和粗糙表面。仅允许使用湿抹布清洁。

#### 二、 产品使用注意事项

1. 产品使用环境温度:  $-20^{\circ}\text{C}\sim+50^{\circ}\text{C}$ 。
2. 用户不得自行更换该产品的零部件,应会同产品制造商共同解决运行中出现的故障,以杜绝损坏现象的发生。
3. 用户在安装、使用和维护产品时,须同时严格遵守产品使用说明书和下列标准:
  - GB 3836.13-2013 爆炸性环境 第13部分:设备的修理、检修、修复和改造
  - GB/T3836.15-2017 爆炸性环境 第15部分:电气装置的设计、选型和安装
  - GB/T3836.16-2017 爆炸性环境 第16部分:电气装置的检查与维护
  - GB 50257-2014 电气装置安装工程爆炸和火灾危险环境电气装置施工及验收规范

#### 三、 制造厂责任

1. 制造厂必须将上述使用注意事项纳入产品的使用说明书中。
2. 制造厂必须严格按照NEPSI认可的文件资料生产。



3. 涉及产品防爆性能和温度的更改和维修，需提交NEPSI重新检验认可。
4. 产品铭牌中应至少包括下列内容：

- a) NEPSI认可标志 
- b) 产品防爆标志
- c) 防爆合格证号
- d) 使用环境温度范围

国家级仪器仪表防爆安全监督检验站  
二〇二〇年二月十四日

