



EXPLOSION PROTECTION

CERTIFICATE OF CONFORMITY

Cert NO.GYJ19.1195X

This is to certify that the product

Portable Single Gas Detector

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

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

which model is **GFS-100- a - b**

Ex marking **Ex ia IIC T4 Ga**

product standard /

drawing number **Ex-A18120001**

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 **2024.06.16**

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 **2019.06.17**



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

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

(GYJ19.1195X)

(Attachment I)

Attachment I to GYJ19.1195X

Portable Single Gas Detector typed GFS-100-a-b 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 GYJ19.1195X.

Type designation:

GFS-100-a-b

a: O₂, CO or H₂S

b: Not related to explosion protection

1. Special condition for safe use

Suffix "X" denotes special condition for safe use: Battery used in the product is not changeable.

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**

June 17th, 2019