



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx BAS 19.0068X Issue No: 0 Certificate history:  
Issue No. 0 (2019-07-22)

Status: Current

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Date of Issue: 2019-07-22

Applicant: **Gastron Co. Ltd.**  
23 Gunpocheomdansaneop 1-ro,  
Gunpo-Si,  
Gyeonggi-Do,  
15881  
Korea, Republic of

Equipment: **GTF-1100\*-\*\*\*\*\* Flame detector**

Optional accessory:

Type of Protection: **Flameproof, Protection by enclosure**

Marking: **Ex db IIC T\* Gb (Ta -40°C to +\*\*°C)  
Ex tb IIIC T80°C Db (Ta -40°C to +60°C)  
(\*), (\*\*) - Refer to table in schedule**

Approved for issue on behalf of the IECEx  
Certification Body:

R S Sinclair

Position:

Technical Manager

Signature:  
(for printed version)

Date:

23-7-19

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**SGS Baseefa Limited**  
Rockhead Business Park  
Staden Lane  
Buxton, Derbyshire, SK17 9RZ  
United Kingdom





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Date of Issue: 2019-07-22 Page 2 of 3  
Manufacturer: **Gastron Co. Ltd.**  
23 Gunpocheomdansaneop 1-ro,  
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Gyeonggi-Do,  
15881  
**Korea, Republic of**

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

|   |  |
|---|--|
| <b>IEC 60079-0 : 2017</b><br>Edition:7.0    | Explosive atmospheres - Part 0: Equipment - General requirements                     |
| <b>IEC 60079-1 : 2014-06</b><br>Edition:7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"    |
| <b>IEC 60079-31 : 2013</b><br>Edition:2     | Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t" |

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[GB/BAS/ExTR19.0191/00](#)

Quality Assessment Report:

[NL/DEK/QAR19.0002/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### General product information:

The 24Vdc flame detector may be manufactured as a triple IR flame detector which has a maximum rating of 96mA and which is given the type designation GTF-1100T, or a UVIR flame detector which has a maximum rating of 121mA which is given the type designation GTF-1100U.

The enclosure of the flame detector consists of a body cap, case body, case cover and sealing ring. The housing of the flame detector is made of aluminium alloy or stainless steel with a free volume less than 193cm<sup>3</sup>. The enclosure of the flame detector is fitted with circuit boards, terminal facilities and status display LEDs visible through a sapphire glass.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices. Any unused entry is to be fitted with a certified Ex stopping plug. The cable entry devices shall be suitable for the equipment, and when used in an explosive dust atmosphere the cable entry device shall maintain the ingress protection of the enclosure.

For full description please see Annex.

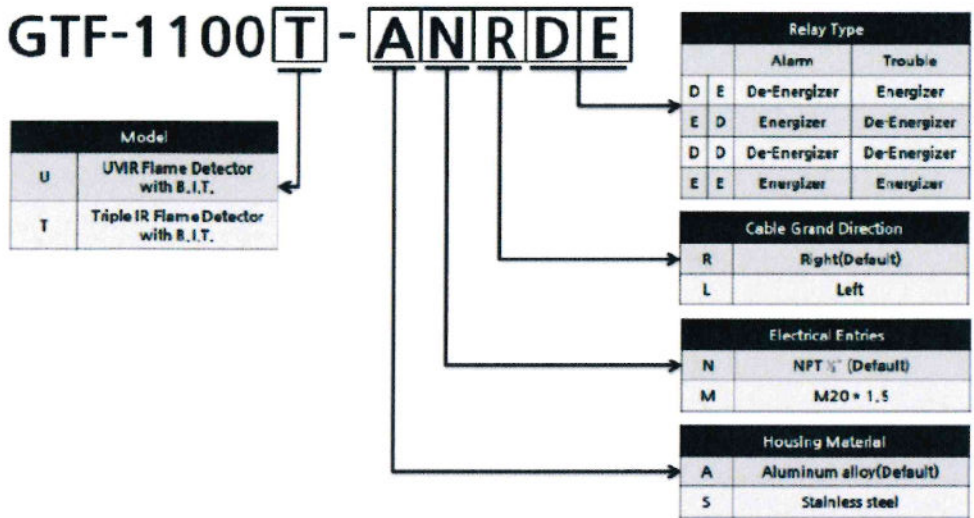
#### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Flameproof joints are not intended to be repaired.
2. The impact tests carried out on the glass windows were at 2J, therefore this equipment shall only be installed in locations where there is a low risk of impact damage.
3. The maximum working temperature of the cable for field wiring shall be no less than 110°C
4. When used in the presence of combustible dust, the end user shall remove the dust regularly to prevent the accumulation of the dust on the external surface of the housing, however it shall not be swept by compressed air.
5. Do not rub the housing with a dry cloth or install in a high velocity dust laden atmosphere.

#### Annex:

[IECEx BAS 19.0068X Annex.pdf](#)

Type code designation



Temperature class and ambient temperature combinations

| Temperature class (*) | Ambient temperature (**) |
|-----------------------|--------------------------|
| T6                    | (Ta -40 °C to +60 °C)    |
| T5                    | (Ta -40 °C to +75 °C)    |
| T4                    | (Ta -40 °C to +85 °C)    |
| T80 °C                | (Ta -40 °C to +60 °C)    |