

1 **EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 EU - Type Examination Certificate Number: **Baseefa19ATEX0080X**
4 Product: **Flame detector**
5 Manufacturer: **Gastron Co. Ltd.**
6 Address: **23 Gunpocheomdansaneop 1-ro, Gunpo-Si, Gyeonggi-Do, 15881,
South Korea**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR19.0191/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0: 2018 EN 60079-1: 2014 EN 60079-31: 2014

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following :

Ex II 2 GD 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**

SGS Baseefa Customer Reference No. **7376**

Project File No. **19/0358**

This document is issued by the Company subject to its General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and the Supplementary Terms and Conditions accessible at <http://www.sgs.com/SGSBaseefa/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Baseefa Limited

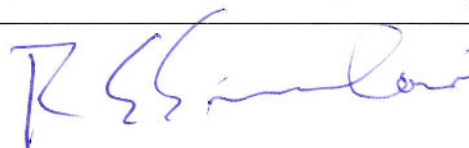
Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601

e-mail baseefa@sgs.com web site www.sgs.co.uk/sgsbaseefa

Registered in England No. 4305578.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN



R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa19ATEX0080X**

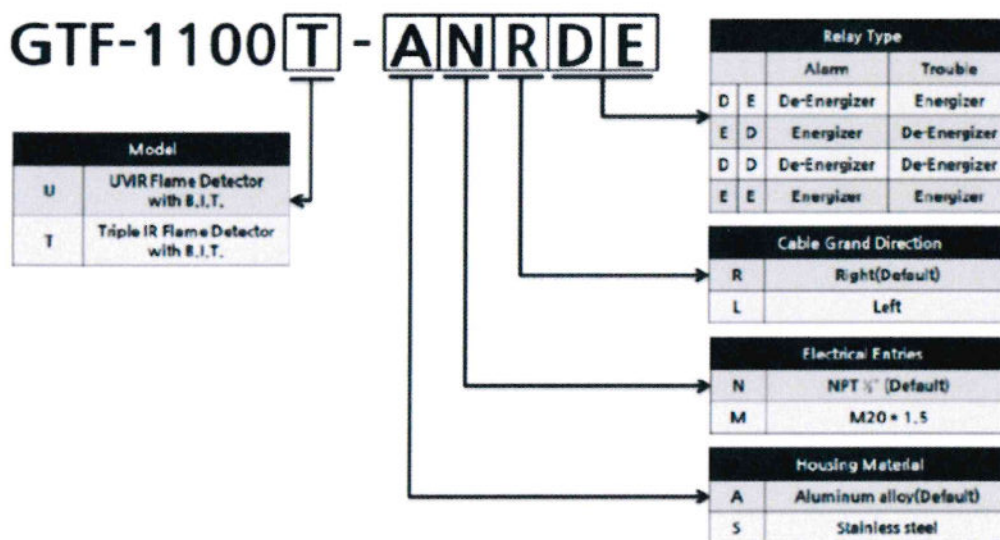
15 **Description of Product**

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 193cm³. 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.

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)

16 **Report Number**

SGS Baseefa report number GB/BAS/ExTR19.0191/00.

17 Specific Conditions of Use

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.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
Ex-A17020003	1	0	08.23.2018	WFR-M50-43-3.0-A6
Ex-A17040001	1	0	08.23.2017	PCB cover
Ex-A17040003	1	0	08.23.2018	PCB cover
Ex-A17070005	1	0	08.23.2018	Cover ring
Ex-A17110026	1	0	08.23.2018	GGSK-40-50-0.5-ASB
Ex-A17120001	1	0	08.23.2018	UV source sponge
Ex-A18080025	1	0	08.23.2018	GWIN-50-3-ALU
Ex-A18080028	1	0	08.23.2018	Body cap
Ex-A18080029	1	0	08.23.2018	Case cover
Ex-A19010002	1	1	2019.07.11	Certification label
Ex-A19010003	1	1	2019.07.11	Certification label
Ex-A19010004	1	1	2019.07.11	GTF-1100T
Ex-A19010005	1	1	2019.07.11	GTF-1100U
Ex-A19010008	1	0	2019.01.25	Case body
Ex-A19010009	1	0	2019.01.25	O-Ring(S60)
Ex-A19010010	1	0	2019.01.25	O-Ring(AN138)

The drawings are common to, and are held with, IECEx BAS 19.0068X.