

1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa15ATEX0085X**

4 Equipment or Protective System: **Type GTD-5000F(CT) & GTD-5000F(IR) Gas Detector Units**

5 Manufacturer: **Gastron Co. Ltd.**

6 Address: **18-8 Dogeumdanji 1-gil, Sangrok-gu, Ansan-si, Gyeonggi-do, Korea**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems 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. **14(C)1016**

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

EN 60079-0: 2012 + A11: 2013 **EN 60079-1:2007**

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 equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

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

12 The marking of the equipment or protective system shall include the following :

⊕ II 2G Ex d IIB+H₂ T6 Gb (T_{amb} = -20°C to +60°C), or T5 (T_{amb} = -20°C to +70°C)

Baseefa Customer Reference No. **7376**

Project File No. **14/1016**

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R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa15ATEX0085X

15 Description of Equipment or Protective System

The Type GBT-5000F(CT) & GBT-5000F(IR) Gas Detector Units comprise a cylindrical enclosure cast in aluminium alloy complete with a threaded cover incorporating a glass window.

A gas sampling system is located within the enclosure, including a gas sensor and pump assembly, with sintered flame arrestor plugs at both the gas inlet and gas outlet. The sensor may be a cartridge type unit (CT) or infrared (IR) as shown in the model designation. The unit may also contain a variety of processing and display electronics/PCB's, including options for an alarm relay, a 4-20mA output and an Rs-485 communication signal.

A cable entry hole threaded M20 or M25 (or NPT equivalent) is provided to facilitate electrical connection via a suitable equipment certified flameproof cable entry device.

16 Report Number

Confidential Report No. 14(C)1016

17 Specific Conditions of Use

1. Contact the original manufacturer for information on the flameproof joint dimensions, if required during installation, maintenance or repair.
2. This equipment is for use at atmospheric levels of oxygen and pressure only (i.e. $\leq 21\%$ Oxygen v/v, and 80 to 110kPa [0.8 to 1.1 bar]). Sample flow control is permitted on the inlet only, with the outlet venting to atmospheric pressure (or lower).

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Issue	Date	Description
EX-L0072	0	05.31.2013	General Assembly, Gas Detector
EX-L0073	0	05.31.2014	General Assembly, Gas Detector
EX-L0074	0	05.31.2014	Body, GDH-5000F
G-EXA0031	0	09.16.2013	Cover, GDH-5000F
G-EXA0046	2	06.02.2014	Name Plate
EX-L0075	0	07.01.2005	Certification Label, GTD-5000F(CT)
EX-L0080	0	13.08.2014	Certification Label, GTD-5000F(IR)
EX-A0036	0	03.20.2013	Sinter, Assembly
EX-A0045	0	03.20.2013	Sinter, Holder
G-EXA0037	0	06.20.2013	Sinter, Body
G-EXA0047	0	04.24.2013	Sinter, Specification (STF-DISK-10-25T)
GE-08S00	5	09.15.2014	Electronics, Schematic (Battery)

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The drawings listed are common to both IECEx BAS 15.0055X & Baseefa15ATEX0085X and are held with former