

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 19ATEX0080** Issue Number: **0**

(4) Product: **Portable Single Gas Detector, G-Finder Single GFS-100 Series**

(5) Manufacturer: **GASTRON Co., Ltd.**

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

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

(8) DEKRA Certification B.V., Notified Body number 0344 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 test report number 510034900, issue 0.

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

EN 60079-0 : 2012 + A11 : 2013

EN 60079-11 : 2012

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:



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Date of certification: 19 July 2019

DEKRA Certification B.V.

R. Schuller
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 19ATEX0080**

Issue No. 0

(15) **Description**

The G-Finder Single GFS-100 series are hand-held, battery operated single gas detectors. The "G-Finder Single" is a brand name and the main model name is "GFS-100". The detector is a personal safety device designed to continuously monitor oxygen or toxic gases. The detector samples the atmosphere in diffusion mode using one electrochemical sensor for one of three gases; Oxygen (O₂), Carbon Monoxide (CO) or Hydrogen Sulfide (H₂S).

The detector alerts the user to potentially unsafe exposure with visual, vibrating and audible alarms when gas concentration exceeds alarm set points, and readings are displayed on a LCD. The detector has IR communications for changing the alarm set point, the calibration range and etc. The IR communications shall be only used in safe area.

Power is provided by one, non-user replaceable, Lithium/Thionyl chloride (Li/SOCl₂) battery containing one primary cell.

The examination of the Gas Detector does not include a judgment of the functional performance of the equipment.

The ambient temperature range for the series: -20 °C ≤ Ta ≤ +50 °C

Nomenclature:

GFS-100-X(-Y)

- GFS-100: Model name

- X: Gas type (O₂: O₂ Gas, CO: CO gas, H₂S: H₂S Gas)

- Y*: Housing body color (OG: orange, YE: yellow, GN: green, VT: violet, and etc.)

*: The option does not affect Intrinsic safety.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. 510034900, Issue 0.

(17) **Specific conditions of use**

None.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. 510034900.

(20) **Certificate history**

Issue 0 - project no. 510034900 initial certificate