

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 23ATEX0003 X** Issue Number: **0**

(4) Product: **G-Finder Portable Pump, GFP-10 Series**

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

(6) Address: **23, Gunpocheomdansaneop 1-ro, Gunpo-si, Gyeonggi-do, 15881, 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 510075900 Issue 0.

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

EN IEC 60079-0 : 2018

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: 10 February 2023

DEKRA Certification B.V.

R. Schuller
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 23ATEX0003 X**

Issue No. **0**

(15) **Description**

The G-Finder Pump GFP-10 series are hand-held, battery operated external pumps to assist in sampling of the atmosphere for portable gas detectors used in confined space. The “G-Finder Pump” is a brand name and the main model name is “GFP-10”.

The type of gas detectors combined with the pump depends on the optional adaptor accessory which consists of mechanical parts only. There is no electrical connection between the pump and the combined gas detector. The pump can be attached to or detached from the combined gas detector in a hazardous area. The pump can also be used independently by selecting a stand-alone type adaptor accessory.

Power is provided by the rechargeable and built-in Lithium-ion Carbon/Nickel Manganese Cobalt battery (Nominal 3.7 Vdc, Peak 4.35 Vdc, 2600 mAh) which shall be charged through the USB type C connector (Nominal charging voltage 5 Vdc and $U_m = 250\text{ V}$, allowed charging with a normal charger) only in a non-hazardous area. The battery is completely encapsulated within the battery compartment of the front body cover except the wires for connection to the main circuit board.

The ambient temperature range is $-20\text{ °C} \leq T_a \leq +50\text{ °C}$

Nomenclature

GFP-10-XX

- GFP-10: Model name

- XX*: Adaptor type (blank: stand-alone adaptor(default), S1: GFS-100 connecting adaptor, M4: GFM-400 connecting adaptor)

*: The option does not affect intrinsic safety.

Electrical data

Power Supply: A single Lithium-ion Carbon/Nickel Manganese Cobalt battery - Nominal 3.7 Vdc, Peak 4.35 Vdc (rechargeable, built-in and non-user replaceable)

Charging Port for the battery: USB type C connector (Nominal charging voltage 5 Vdc and $U_m = 250\text{ V}$, allowed charging with a normal charger only in a non-hazardous area)

Installation instructions

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

(16) **Report Number**

No. 510075900 Issue 0.

(17) **Specific conditions of use**

The equipment shall not be opened for installation, repair or overhaul in hazardous location. The user shall consult the manufacturer if there is any problem during the usage.

The external USB type C connection of the equipment for charging the battery shall be used only in non-hazardous area.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 23ATEX0003 X**

Issue No. **0**

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. 510075900.

(20) **Certificate history**

Issue 0 - 510075900 initial certificate