



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX KTL 22.0035X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2022-12-26
Applicant: **GASTRON Co., LTD.**
23, Gunpocheomdansaneop 1-ro
Gunpo-si, Gyeonggi-do 15881
Korea, Republic of
Equipment: **Portable Pump for Gas Detectors, G-Finder Pump GFP-10 Series**
Optional accessory:
Type of Protection: **Intrinsic Safety "i"**
Marking: **Ex ia IIC T4 Ga**

Approved for issue on behalf of the IECEx
Certification Body:

Park, Jong-koo

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

Korea Testing Laboratory
87, Digital-ro, 26-gil, Guro-gu
Seoul
Korea, Republic of





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Issue No: 0

Manufacturer: **GASTRON Co., LTD.**
23, Gunpocheomdansaneop 1-ro
Gunpo-si, Gyeonggi-do 15881
Korea, Republic of

Manufacturing
locations:

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 equipment 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

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with 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:

[KR/KTL/ExTR22.0038/00](#)

Quality Assessment Report:

[NL/DEK/QAR19.0002/02](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The G-Finder Pump GFP-10 series are hand-held, battery-operated external pumps to assist in sampling the atmosphere for portable gas detectors used in confined spaces. 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.

The pump comprises two printed circuit boards, a pump motor, and a battery housed in a non-metallic enclosure constructed by molding with anti-static polycarbonate black resin. The non-metallic enclosure consists of a front body cover, a rear body cover, gas inlet parts, and adaptor parts. The parts of the enclosure are secured by screws. The pump has no facilities for connection of external circuits except charging the battery.

Power is provided by the rechargeable and built-in Lithium-ion Carbon/Nickel Manganese Cobalt battery (Nominal 3.7 Vdc, Peak 4.35 Vdc, 2 600 mAh) which shall be charged through the USB type C connector (Nominal charging voltage 5 Vdc and Um = 250 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 for the wires for connection to the main circuit board.

The ambient temperature range for the series is $-20\text{ }^{\circ}\text{C} \leq T_a \leq +50\text{ }^{\circ}\text{C}$.

The configuration for GFP-10 series is as follows;

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)

* : This option can be selected only if the user requires a particular adaptor type different from the default. The option does not affect intrinsic safety.

For detailed information, see the instruction manual.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.

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.

2. WARNING - DO NOT CHARGE THE BATTERY IN HAZARDOUS LOCATION.

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