Safety information

Overview

GX-Force is a suction type portable gas monitor which can measure up to 4 gases using 3 sensors.
GX-Force measure the combustible gases (LEL), oxygen (O2), hydrogen sulfide (H2S), and carbon monoxide (CO).
Display measurement results on an LCD and issue gas alarms (via LED and buzzer) as needed. The models also wirelessly transmit measurement results to a host using Bluetooth.

Power sources

The GX-Force draws power from an integrated rechargeable Li-ion battery that is not user-replaceable.
A dedicated AC adapter is used for recharging the Li-ion battery.

Specification for safety

Ex da ia IIC T4 Ga (with combustible gas sensor NCR-6309)
Ex ia IIC T4 Ga (without combustible gas sensor NCR-6309)

II 1 G Ex da ia IIC T4 Ga (with combustible gas sensor NCR-6309)
II 1 G Ex ia IIC T4 Ga (without combustible gas sensor NCR-6309)

- Ambient temperature range for use: -20°C to +60°C
- Ambient temperature range during battery charging: +10°C to +40°C

Electrical data

- BP-Force is specified for chargeable lithium-ion batteries.
- Uses one PANASONIC NCR18650GA battery.
- The battery should be charged with the dedicated AC adapter or by power from IEC60950-certified SELV power source, or IEC62368-1-certified ES1 power source.
  The maximum voltage from the charger shall not exceed 6.0Vdc.
- It is also possible to perform USB data communication with a PC that meets the above requirements.
- Batteries should only be charged in non-hazardous locations.

Certificate numbers

- IECEx Certificate: IECEx DNV 22.0029X
- ATEX Certificate: DNV 22 ATEX 05201X

List of standards

- IEC 60079-0:2017
- IEC 60079-1:2014-06
- IEC 60079-11:2011
- EN IEC 60079-0:2018
- EN60079-1:2014
- EN60079-11:2012

Use/ Maintenance/ Adjustment

WARNINGS

- Do not attempt to disassemble or modify the instrument.
- The combustible gas sensor NCR-6309, to measure LEL, is the only part of this Gas Monitor system with flame - proof construction.
- This product is an explosion-proof product and is not to be disassembled or modified with the exception of specified parts.
- NCR-6309 must not be exposed to ultraviolet light.
- This product integrates a sensor having flameproof construction.
- If assembly is not performed as specified, explosion protection performance will be compromised. When replacing the sensor and filter, properly install genuine parts and torque to specification.
- Do not replace sensor or filter in a hazardous location.
- If the enclosure is damaged it shall be repaired before further use.
- The Sensor shall not be exposed to ultraviolet light or used in equipment in which it is not fully enclosed.
- Do not charge in a hazardous location.
- Do not charge the unit with a non-genuine charger.
- When connecting to a PC via USB, the PC must be charged by IEC60950-certified SELV power source, or IEC62368-1-certified ES1 power source. The maximum voltage from the PC shall not exceed 6.0Vdc.
- The re-adjustment and parts replacement etc including the gas calibration shall be contacted to our nearest agent or RIKEN KEIKI Co., Ltd.
- When using the product in hazardous areas, take the following precautions to safeguard against static electricity hazards:
  1. Wear anti-static clothing and conductive shoes (anti-static work shoes).
  2. When using the product indoors, stand on a conductive work floor (with a leakage resistance of 10MΩ or less).

Instruments No.

INST. No.	00	0	000	0000	00
	A	B	C	D	E

A: Year of manufacture (0 to 9)
B: Month of manufacture (1 to 9 for Jan.-Sep.; XYZ for Oct., Nov., Dec.)
C: Manufacturing lot
D: Serial number
E: Factory codes

RIKEN KEIKI

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