

## Safety information

The GX-6000 can measure maximum six gases with six sensors.  
 Standard unit measures four gases with four sensors for general combustible gases(LEL), Oxygen(O<sub>2</sub>), Hydrogen Sulfide(H<sub>2</sub>S) and Carbon Monoxide(CO).  
 Other remaining two slots are for Smart Sensors which consist of sensor part and circuit board and are connected with apparatus through digital signal output to various sensors.  
 Four different types of detection principle are applied for Smart Sensors and up to two sensors can be mounted into the GX-6000.







Gas is sampled by a built-in micro pump.

Either alkaline battery pack "BUD-6000" or lithium-ion battery pack "BUL-6000" can be installed into GX-6000.

Structure of battery unit allows end users to replace it by themselves.

It is supposed to replace the battery unit, alkaline battery, and charge the rechargeable battery at non-hazardous area. Also, Charging BUL-6000 should be done with a specific model, BC-6000 or SDM-6000.

## Specification for safety

GX-6000 Ex code T class	Ambient temperature range for use	Combustible gas sensor	Battery
Ex ia IIB T4 Ga  II1G Ex ia IIB T4 Ga	-20°C to +50°C	Mounted	BUL-6000
Ex ia IIC T4 Ga  II1G Ex ia IIC T4 Ga	-20°C to +50°C	N/A	BUL-6000
Ex ia IIB T4 Ga  II1G Ex ia IIB T4 Ga	-20°C to +50°C	Mounted	BUD-6000 LR6 (TOSHIBA)
Ex ia IIC T4 Ga  II1G Ex ia IIC T4 Ga	-20°C to +50°C	N/A	BUD-6000 LR6 (TOSHIBA)
Ex ia IIB T3 Ga  II1G Ex ia IIB T3 Ga	-20°C to +50°C	Mounted	BUD-6000 MN1500 (DURACELL)
Ex ia IIC T3 Ga  II1G Ex ia IIC T3 Ga	-20°C to +50°C	N/A	BUD-6000 MN1500 (DURACELL)

• Ambient temperature range during battery charging : 0°C to +40°C

**Electrical data**

- Power supply of Li-ion battery unit : BUL-6000  
Two parallel connected Li-ion cells used in battery pack BUL-6000 are from type Maxell INR18650PB1 or SDI INR18650-15M or SONY US18650VT3.  
Um=250V.
- Power supply of alkaline battery unit : BUD-6000  
Powered by three series AA size alkaline batteries, model LR6 by TOSHIBA or model MN1500 by DURACELL

**Certificate numbers**

- IECEX Certificate number : IECEX PRE 15.0011
- ATEX Certificate number : Presafe 15 ATEX6171X

**List of standards**

- |                       |                       |
|-----------------------|-----------------------|
| • IEC 60079-0 : 2017  | • EN IEC 60079-0:2018 |
| • IEC 60079-11 : 2011 | • EN 60079-11:2012    |

**Specific conditions of “X”-mark:**

Regarding ATEX specification, the measuring function according to Annex II paragraph 1.5.5 of the Directive is not covered by this EU-type examination. It shall comply with the requirements from the relevant European harmonized standards which provide guidance on the performance of gas detection equipment and safety devices.

**WARNING**

- DO NOT CHARGE IN HAZARDOUS LOCATION.
- DO NOT CHARGE IT EXCEPT BY GENUINE CHARGER.
- DO NOT REPLACE BATTERY UNIT IN HAZARDOUS LOCATION.
- DO NOT REPLACE DRY BATTERIES IN HAZARDOUS LOCATION.
- DO NOT ATTEMPT TO DISASSEMBLE OR ALTER THE INSTRUMENT.
- USE ONLY WITH CONNECTED ALKALINE AA BATTERY, TYPE LR6 MANUFACTURED BY TOSHIBA, OR TYPE MN1500 MANUFACTURED BY DURACELL

INST. No. 0 0 0 0 0 0 0 0 0 0

A B C D E

- A: Manufacturing year (0-9)  
 B: Manufacturing month (1-9,XYZ for Oct.-Dec.)  
 C: Manufacturing lot  
 D: Serial number  
 E: Code of factory

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