

GX-FORCE

Portable Four Gas Detector with Pump

- Easy-to-grip lightweight design. Approx 280g
- 3 Year warranty
- Intrinsically safe explosion-proof construction, flame-proof enclosure
- Continuous operating time: Approx 30 hours
- Passes 3m drop testing
- Protection rating equivalent to IP67



Overview

The GX-Force features a rugged and easy-to-hold body, a 3-year warranty, and 30-hour battery life. These attributes help assure safety.



Applications

- Confined spaces
- Hazardous material
- Refineries / petrochemical
- Personal monitoring
- Utilities
- Oil and gas
- Water / wastewater plants
- Fire services
- Pharmaceuticals
- Construction



Common Specifications	
Model	GX-Force
Sampling method	Sample draw
Suction flow rate	Minimum 0.35 L/min (open flow rate)
Gas alarm pattern	Lamp flashing, continuous buzzer sounding, gas concentration display, vibration
Gas alarm reset operation	Self-latching
Fault alarm/self-diagnosis	System, clock, or sensor abnormality; battery voltage drop; calibration feature; pump abnormality; low flow rate
Fault alarm pattern	Lamp flashing, intermittent buzzer sounding, detail display
Fault alarm reset operation	Self-latching
Display	LCD digital (7-segment + 14-segment + icons) with backlight
Individual operations	Operational status, clock, battery level, peak reading, pump status, calibration notification
Sound pressure	Approx. 90 dB (30cm)
Data logger function	Maximum storage capacity: 3,600 items Interval: 5 minutes (adjustable)
Communication specifications	USB2.0 (for data logger) Connector: Type-C
Power source	Rechargeable lithium-ion battery
Continuous operating time^{*1}	Approx. 30 hours (25°C)
Operating ambient temperature/humidity range^{*2, *3}	-40°C to +60°C (no sudden changes), 0 - 95 %RH (no-condensation)
Explosion-proof construction	Intrinsically safe explosion-proof construction, flame-proof enclosure IECEX (Ex da ia IIC T4 Ga/Ex ia IIC T4 Ga) ATEX (II1G Ex da ia IIC T4 Ga/II1G Ex ia IIC T4 Ga) Japan EX (Ex da ia IIC T4 Ga/Ex ia IIC T4 Ga) (pending)
Certifications	CE/UKCA marking, JIS T 8201, JIS T 8205, JIS T 8206
Protection level	IP67 equivalent
External dimensions/weight	Approx. 64 mm (W) x 173 mm (H) x 47 mm (D) (excluding protrusions) / Approx. 280g

*1 Varies depending on sensor type installed. Please contact for more information

*2 In temporary ambient conditions for approximately 15 minutes. This operating temperature and humidity ranges for continuous ambient conditions are as follows: Temperature -20°C to +50°C (no sudden changes) / Humidity 10 - 90%RH (no-condensation)

*3 The range of operating temperatures in which explosion-proof performance is maintained as follows: Temperature: -20°C to +60°C (no sudden changes)

Detection Target Gas				
Detection target gas	Combustible gas (CH4 or HC)	Oxygen gas (O2)	Carbon monoxide (CO)	Hydrogen sulfide (H2S)
Detection principle	New ceramic type (Catalytic type)	Electrochemical type		
Display range	0 - 100 %LEL	0.0 - 40.0 vol%	0 - 2,000 ppm	0.0 - 200.0 ppm
Detection range	0 - 100 %LEL	0.0 - 25.0 vol%	0 - 500 ppm	0.0 - 100.0 ppm
Resolution	1 %LEL	0.1 vol%	1 ppm	0.1 ppm
Alarm setpoints (User-defined setting)	1st alarm: 10 %LEL 2nd alarm: 25 %LEL 3rd alarm: 50 %LEL OVER alarm: 100 %LEL	1st alarm: 19.5 %LEL LL alarm: 18.0 vol% H alarm: 23.5 vol% OVER alarm: 18.0 vol%	1st alarm: 25 ppm 2nd alarm: 50 ppm 3rd alarm: 1,200 ppm TWA alarm: 25 ppm STEL alarm: 200 ppm OVER alarm: 2,000 ppm	1st alarm: 5.0 ppm 2nd alarm: 30.0 ppm 3rd alarm: 100.0 ppm TWA alarm: 1.0 ppm STEL alarm: 5.0 ppm OVER alarm: 200.0 ppm
Response time (T90)	CH4: Within 30 seconds HC: Within 40 seconds	Within 20 seconds	Within 30 seconds	Within 30 seconds

Type List							
Type / Detection target gas / Sensor	CH4 or GC NCR-6309	O2 ESR-X13P	H2S & CO ESR-A1DP	H2S ESR-A13P	CO ESR-A13P	Reduced H2 interference CO ESR-A1CP	
4-component	Type A	0	0	0			