

# World's smallest & lightest !! Portable gas monitor

Spring 2019 Debut

Model GX-3R

4 gas monitor

LEL	O <sub>2</sub>
CO	H <sub>2</sub> S



Smallness and lightness of gas monitor is a very important in a confined space.

GX-3R is the smallest and lightest 4 gas monitor in the market. It is about 100 g, which is a size that does not interfere with work even if it is attached to the Breathing Zone. Moreover, it can be used continuously for about 40 hours (with long-battery mode), it has waterproof / dust-proof performance equivalent to IP66/68 so it can be used with confidence. The newly developed sensors have 3 year warranty. In addition, using SDM-3R daily maintenance and gas adjustment, it is possible to minimize maintenance time and cost.

## Applications



Petrochemical Industry



Shipping



Iron and Steel Industry



Gas Plants



Construction Industry



Fire Service



Thermal Power Plants



Automotive Factories



Food Industry



Semiconductor

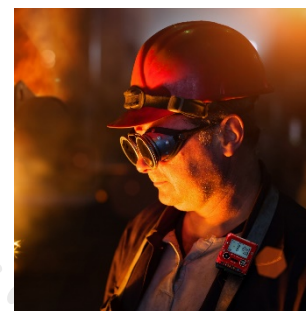
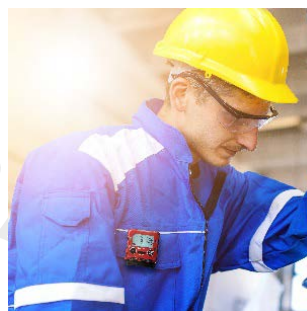
## Specifications

It may be different from the final specification because it is under development.

Model	GX-3R			
Gas to be detected	Combustible gas (CH4 or HC)	Oxygen (O2)	Carbon monoxide (CO)	Hydrogen sulfide (H2S)
Detection principle	New ceramic type	Electrochemical type		
Detection method	Diffusion type			
Detection range	0~100%LEL	0~40.0%	0~2000ppm	0~200.0ppm
Resolutions	1%LEL	0.1%	1ppm	0.1ppm
Alarm set point value	1 <sup>st</sup> alarm : 10%LEL 2 <sup>nd</sup> alarm : 25%LEL 3 <sup>rd</sup> alarm : 50%LEL OVER alarm : 100%LEL	1 <sup>st</sup> alarm : 19.5% 2 <sup>nd</sup> alarm : 18.0% 3 <sup>rd</sup> alarm : 23.5% OVER alarm : 40.0%	1 <sup>st</sup> alarm : 25ppm 2 <sup>nd</sup> alarm : 50ppm 3 <sup>rd</sup> alarm : 1200ppm TWA alarm : 25ppm STEL alarm : 200ppm OVER alarm : 2000ppm	1 <sup>st</sup> alarm : 5.0ppm 2 <sup>nd</sup> alarm : 30.0ppm 3 <sup>rd</sup> alarm : 100.0ppm TWA alarm : 1.0ppm STEL alarm : 5.0ppm OVER alarm : 200ppm
Gas alarm display	Lamp blinking, continuous modulating buzzer sounding, gas concentration display blinking and vibration			
Gas alarm pattern	Self-latching			
Fault alarm	System abnormalities, sensor abnormalities, battery voltage drop and calibration failure			
Fault alarm display	Lamp blinking, intermittent buzzer sounding and detail display			
Fault alarm pattern	Self-latching			
Concentration display	LCD digital (7-segment + 14-segment + Icon) ,Backlight			
Displays	Operating state, Clock, Temperature, Peak value, Calibration expiration date			
Buzzer	Approx. 95 dB (at 30 cm)			
Confirmation beep	Operation : OFF, LED, BUZZER, LED + BUZZER selectable (The default setting is "OFF") Interval : can be selected from 30 sec. to 99 minutes (The default setting is "5 minutes")			
Data logging	300 hours (adjustable) 3600 event logs Can be read out with IrDA			
Battery	Lithium ion battery < 3 hour charge time			
Warm-up time	2 minutes			
Continuous operating time	Approx. 40 hours (with long-battery, at 25°C, no alarm, no lighting) Approx. 25 hours (at 25°C, no alarm, no lighting)			
Operating Temperature range	-40~+60°C at a constant condition (intermittent) -20~+50°C at a constant condition (continuous)			
Operating Humidity range	0~95%RH non-condensing (intermittent) 10~90%RH non-condensing (continuous)			
IP rating	IP66/68			
Dimensions/Weight	Approx. 58(W)×65(H)×26(D)mm (projection portions excluded) / Approx. 100g			

## Optional Accessories

- Protection film for LCD
- Heat-resistant case
- Leather case
- Arm or ankle band
- Manual pump unit
- Carrying case
- Cradle charger
- Multi-Unit Adaptor (Simultaneously charge five monitors)
- Adaptor for IrDA communication
- Data logger software [SW-GX-3R]
- Pump unit [RP-3R]
- Docking station [SDM-3R]



*To Ensure Your Life...*

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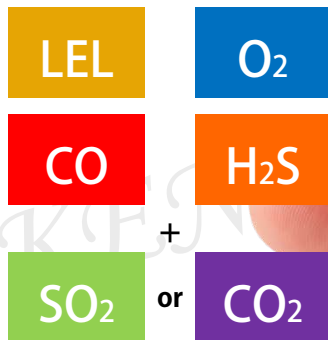
★ Your direct contact :

# World's smallest & lightest !! Portable gas monitor

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Model GX-3R Pro

5 gas monitor



selectable !



Smallness and lightness of gas monitor is a very important in a confined space.

GX-3R Pro is the smallest and lightest 5 gas monitor in the market. In addition to combustible gases, oxygen, carbon monoxide, hydrogen sulfide, you can select +1 sensor for example sulfur dioxide or Carbon dioxide. Furthermore, full-dot display easy to see can displays 11 languages, and it can be used in an environment of -40°C to + 60°C, so it meets a wide range of needs. The newly developed sensors have 3 year warranty. In addition, using SDM-3R daily maintenance and gas adjustment, it is possible to minimize maintenance time and cost.

## Applications



Petrochemical Industry



Shipping



Iron and Steel Industry



Gas Plants



Construction Industry



Fire Service



Thermal Power Plants



Automotive Factories



Food Industry



Semiconductor

## Specifications

It may be different from the final specification because it is under development.

Model	GX-3R Pro
Detection method	Diffusion type
Gas alarm display	Lamp blinking, continuous modulating buzzer sounding, gas concentration display blinking and vibration
Gas alarm pattern	Self-latching
Fault alarm	System abnormalities, sensor abnormalities, battery voltage drop and calibration failure
Fault alarm display	Lamp blinking, intermittent buzzer sounding, and detail display
Fault alarm pattern	Self-latching
Panic alarm	Pre alarm, Main alarm (triggered after a 5-second pre alarm) Self-latching
Man-down alarm	Pre alarm1 : 60 sec. Pre alarm2 : 75 sec. Main alarm : 90 sec. (adjustable) Self-latching
Concentration display	LCD digital display (full-dot), Backlight
Displays	Operating state, battery level, Clock, Temperature, Peak value, Calibration expiration date
Language	Japanese/English/French/Spanish/Portuguese/German/Italian/Russian/Korean/Chinese (SC & TC)
Out put	Bluetooth (BLE : Bluetooth Low Energy)
Buzzer	Approx. 95 dB (at 30 cm)
Confirmation beep	Operation : OFF, LED, BUZZER, LED+BUZZER selectable (The default setting is "OFF") Interval : can be selected from 30 sec. to 99 minutes (The default setting is "5 minutes")
Data logging	300 hours (adjustable) 3600 event logs Can be read out with IrDA
Battery	Lithium ion battery unit BUL-3R (< 3 hour charge time) or Dry battery unit BUD-3R (2 AAA alkaline dry batteries)
Warm-up time	2 minutes
Continuous operating time*	Approx. 40 hours (with long-battery, at 25°C, no alarm, no lighting) Approx. 25 hours (at 25°C, no alarm, no lighting)
Operating Temperature range	-40~+60°C at a constant condition (intermittent), -20~+50°C at a constant condition (continuous)
Operating Humidity range	0~95%RH non-condensing (intermittent), 10~90%RH non-condensing (continuous)
IP rating	IP66/68
Dimensions/Weight	BUL-3R in use : Approx. 73(W)×65(H)×26(D)mm (projection portions excluded) / Approx. 120g BUD-3R in use : Approx. 73(W)×65(H)×34(D)mm (projection portions excluded) / Approx. 140g

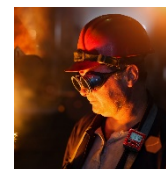
\*Depends on sensor type. For more information, please contact us.

## Sensors

Gases	Combustible gas	Oxygen (O <sub>2</sub> )	Carbon monoxide (CO)	Hydrogen sulfide (H <sub>2</sub> S)	Sulfur dioxide (SO <sub>2</sub> )	Carbon dioxide (CO <sub>2</sub> )
Principle	New ceramic	Electrochemical type				NDIR
Range	0~100%LEL	0~40.0%	0~2000ppm	0~200.0ppm	0~100.00ppm	0~10.00vol% 0~10000ppm
Resolutions	1%LEL	0.1%	1ppm	0.1ppm	0.05ppm	0.01vol% 20ppm

## Optional Accessories

- Protection film for LCD
- Heat-resistant case
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- Multi-Unit Adaptor (Simultaneously charge five monitors)
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