



6 Gas With PID

IR / TC / MOS & Super Toxics

2 Interchangeable Smart Sensor Slots

4 PID Options with Benzene and Dual PID

TC Sensor for % Volume Combustibles

MOS Sensor for PPM Methane and Isobutane

Bluetooth with iOS & Android App

3 Year Warranty

GX-6100



GX-6100

Monitor up to 6 gases:

LEL, O₂, H₂S, CO

2 interchangeable "Smart Sensor" slots

- PID for VOC's
- IR for CH₄, HC, & CO₂
- EC for NH₃, Cl₂, HCN, NO₂ & SO₂
- MOS for ppm CH₄ or i-C₄H₁₀

6 Operating modes

- Normal
- Leak Check
- Inert
- Bar Hole
- Snap Log
- Benzene Specific Mode

PID Library of more than 600 VOC's

- 4 PID options: 10.6 eV (2 ranges), 10.0 eV, and 11.7 eV lamps
- 40,000 ppb / 4,000 ppm ranges
- Easily choose a target VOC
 - User defined VOC list of 30
 - Recently used VOC list of last 8

Glove friendly buttons glow-in-the-dark

Interchangeable battery options

- Lithium-ion pack operates 28 hours
 - Complete recharge in 6 hours
- Alkaline pack operates 8 hours

16 Languages

- English, Japanese, French, Spanish, Portuguese, Italian, German, Russian, Korean, Chinese (simplified), Chinese (traditional), Vietnamese, Slovak, Czech Turkish and Polish



Alarms

- 3 Adjustable gas alarms per channel
- Man down alarm
- Panic alarm
- 5 Alarm LED's
- Audible and vibration alarms
- Trouble alarms for low flow, sensor connection, low battery, circuit error and calibration

LED Flashlight

- On demand light source

LCD Display

- Auto flip display
- Peak bar graphs
- Adjustable auto backlight
- Customize order of gases
- Single gas view with large font and auto sequence

LEL protection mode

- Shields LEL sensor from damaging high hydrocarbon exposure

Intrinsically Safe

- IECEx
- ATEX
- cCSA_{US}

Weather & dust resistant

- IP-67

2.6"

Specifications

Gases & Detectable Ranges					
Gas		Detection Range	Reading Increment	Alarm Set Points	Accuracy
PID Sensors					
10.6 Lamp	600 VOC's	0 - 40,000 ppb	1 ppb: (< 5000 ppb) 10 ppb: (> 5,000 ppb)	A1: 5,000 ppb A2: 10,000 ppb A3: 10,000 ppb	± 10% of reading, ± 1 digit
		0 - 4,000 ppm	0.1 ppm: (< 600 ppm) 1 ppm: (> 600 ppm)	A1: 400 ppm A2: 1,000 ppm A3: 1,000 ppm	
10.0 Lamp	Benzene Specific	0 - 50 ppm	0.01 ppm (0 ~ 10 ppm) 0.1 ppm (10 ~ 50 ppm)	No Alarms	
	300 VOC's	0 - 100 ppm	0.01 ppm (0 ~ 10 ppm) 0.1 ppm (10 ~ 100 ppm)	A1: 5 ppm A2: 10 ppm A3: 10 ppm	
11.7	High Voltage Lamp	0 - 1,000 ppm	0.1 ppm (0 ~ 100 ppm) 1 ppm (100 ~ 1,000 ppm)	A1: 400 ppm A2: 1,000 ppm A3: 1,000 ppm	
Electro Chemical R Sensor					
Oxygen (O2)		0 - 40.0% Vol.	0.1% Vol.	A1: 19.5% Vol. A2: 18% Vol. A3: 23.5% Vol.	± 0.5% O2
Carbon Monoxide (CO)		0 - 2,000 ppm	1 ppm	A1: 25 ppm A2: 50 ppm A3: 1,200 ppm TWA 25 ppm STEL 200 ppm	± 5% of reading or ± 5 ppm
Hydrogen Sulfide (H2S)		0 - 200 ppm	0.1 ppm	A1: 5.0 ppm A2: 30.0 ppm A3: 100.0 ppm TWA 1.0 ppm STEL 5.0 ppm	± 5% of reading or ± 2 ppm
Toxics (EC Sensors)					
Ammonia (NH3)		0 - 400.0 ppm	0.5 ppm	A1: 25 ppm A2: 50 ppm A3: 50 ppm	± 10% of reading or ± 5% of full scale
Chlorine (Cl2)		0 - 10.00 ppm	0.05 ppm	A1: 0.5 ppm A2: 1.0 ppm A3: 1.0 ppm	
Hydrogen Cyanide (HCN)		0 - 15.0 ppm	0.1 ppm	A1: 5 ppm A2: 10 ppm A3: 10 ppm	
Nitrogen Dioxide (NO2)		0 - 20.00 ppm	0.05 ppm	A1: 3 ppm A2: 6 ppm A3: 6 ppm	
Phosphine (PH3)		0 - 20.00 ppm	0.01 ppm	A1: 0.30 ppm A2: 1.00 ppm A3: 1.00 ppm	
Sulfur Dioxide (SO2)		0 - 99.90 ppm	0.05 ppm	A1: 2 ppm A2: 5 ppm A3: 5 ppm	
Smart Sensors NDIR					
Carbon Dioxide (CO2) NDIR		0 - 10,000 ppm	20 ppm	A1: 5,000 ppm TWA 5,000 ppm	± 5% of reading or ± 2% of full scale
		0 - 10.00% Vol.	0.02%	A1: 0.50% Vol. A2: 3.00% Vol. A3: 3.00% Vol. STEL 3.00% Vol. TWA 0.50% Vol.	
Methane NDIR		0 - 100% LEL 0 - 100% Vol.	1% LEL/ 0.5% Vol	A1: 10% LEL A2: 50% LEL A3: 50% LEL	
Isobutane NDIR		0 - 100% LEL 0 - 30% Vol.			
Smart Sensor (hot-wire semiconductor) MOS sensor must be recalibrated after H2S exposure					
Methane		0 - 5,000 ppm	10 ppm	N/A	
Isobutane		0 - 2,000 ppm			
R Sensor (new ceramic type)					
Hydrocarbons (CH4, std)		0 - 100% LEL	1% LEL	A1: 10%LEL A2: 25%LEL A3: 50%LEL	± 5% of reading or ± 2% LEL
TE Sensor (thermal conductivity)					
Methane CH4		0 - 100 vol%	1% vol%	N/A	

Common Specifications		
Alarm Types	Gas alarm	Trouble
	Three levels adjustable	Low flow, Sensor connection, Low battery, Circuit error, Calibration failure
	• Man Down Alarm • Panic Alarm	
Sample Method	Sample draw pump, flow rate 0.45 LPM, 100 foot sample range	
Display	Digital LCD, autobacklight, peak bar display, auto display rotation, and customize order of gases	
Communication	Bluetooth, IrDA	
Audible Alarm	95 dB at 1 ft.	
Languages	English, Japanese, French, Spanish, Portuguese, Italian, German, Russian, Korean, Chinese (simplified), Chinese (traditional), Vietnamese, Slovak, Czech, Turkish, Polish	
Continuous Operation	28 hours on Lithium-ion battery pack. Complete recharge in 6 hours. 8 hours Alkaline battery pack (3 AA size in each pack)	
Operating Temp. & Humidity	-4°F to 122°F (-20°C ~ +50°C), 0- 95% RH non condensing	
Dimensions	2.6" W x 7.9" H x 2.2" D (W68 x H200 x D56 mm) 17.6 ounce (500g) with lithium battery pack 16 ounces with alkaline batteries (450g)	
Case Material	Dust and water resistant with IP-67 approval (exclude sample hose and probe)	
Safety Design / Approvals	Intrinsically safe: IECEx , ATEX , TIIS , cCSAus IS Class: Class 1 Div 1 groups A,B,C,D T4 Others: CE Marking	
Standard Features	2 Smart sensors slots auto recognize sensor changes Panic alarm and man down alarm Library of over 600 VOC's User defined VOC list. Up to 30 frequently used Recent VOC list for last 8 selected gases Pump and circuit status indicators User & station ID selection menu Datalogging (interval, alarm trend, station and user ID) Snap logging - on demand data logging Demand zero / Auto zero BUMP and CAL expiration alarm Flashlight LEL sensor protection mode	
Standard Accessories	• Rubber boot • Belt clip • Hand strap • Tapered nozzle • Probe with hydrophobic & dust filter 3' Teflon lined hose • Benzene pre-filter tubes and holder (benzene versions)	
Optional Accessories	• SDM-6100 calibration station • Bundles with instrument carrying case and accessories • Flexible probes • Up to 100 foot sample hoses • Filter set • IrDA cable	
Warranty	Three years material (including R sensors) and workmanship. 2 years for IR sensors and ESS (except Cl2), One year for TE, Cl2 and PID sensors (Two months for 11.7 eV lamp)	

Specifications subject to change without notice

Sensor Technologies

Smart Sensors

Electrochemical (ESS-03DH-XXX)		 Toxics	
Gas		Range	Accuracy
Ammonia (NH ₃)		0 - 400 ppm	± 10% of reading or ± 5% of full scale (†)
Chlorine (Cl ₂)		0 - 10 ppm	
Hydrogen Cyanide (HCN)		0 - 15 ppm	
Nitrogen Dioxide (NO ₂)		0 - 20.0 ppm	
Phosphine (PH ₃)		0 - 20.00 ppm	
Sulfur Dioxide (SO ₂)		0 - 99.9 ppm	
Photo ionization Detection (PID Lamp)		 VOC's	
Gas		Range	Accuracy
10.6 eV	600 VOC's	0 - 40,000 ppb	± 10% of reading, ± 1 digit
		0 - 4,000 ppm	
10.0 eV	Benzene Specific	0.1 - 50 ppm	
	300 VOC's	0 - 100 ppm	
11.7 eV	High Voltage Lamp	0 - 1,000 ppm	
Infrared (DES-3311-1/-2/-3/-4)		 CO₂ CH₄ HC	
Gas	P/N	Range	Accuracy
Carbon Dioxide (CO ₂)	-4	0 - 10,000 ppm	± 5% of reading or ± 2% of full scale (†)
	-1	0 - 10 % Vol.	
Methane (CH ₄)	-3	0 - 100% LEL 0 - 100% Vol.	
Hydrocarbons	-2	0 - 100% LEL 0 - 30% Vol.	
MOS (SHS-8661-CH4-ISO)		 CH₄ C₄H₁₀	
Gas		Range	Accuracy
Methane (CH ₄)		0 - 5,000 ppm	± 10% of reading or ± 50 ppm CH ₄
Isobutane (C ₄ H ₁₀)		0 - 2,000 ppm	



Standard
4 gas
sensor
slots

Smart
sensor
slots

Note: (†) = Whichever is greater

Standard 4 Gas + TC

Ceramic R Sensor (NCR-6309)				LEL
Gas	Range	Accuracy		
Hydrocarbons (CH ₄) standard	0 - 100% LEL	± 5% of reading or ± 2% LEL (†)		
Methane is the standard configuration. Other combustible gases available.				

Electro Chemical R Sensor (ESR-A1DP-COHS)				CO / H ₂ S
Gas	Range	Accuracy		
Carbon Monoxide (CO)	0 - 2,000 ppm	± 5% of reading ± 2 ppm (†)		
Hydrogen Sulfide (H ₂ S)	0 - 200 ppm			
Extra long-life CO and H ₂ S sensors.				

Electro Chemical R Sensor (ESR-X13P-OXY)				O ₂
Gas	Range	Accuracy		
Oxygen (O ₂)	0 - 40% Vol.	± 0.5% O ₂		
A specific electrochemical sensor for oxygen monitoring.				

Thermal Conductivity Sensor (TE-7561)				CH ₄
Gas	Range	Accuracy		
Methane (CH ₄)	0 - 100% Vol.	N/A		
Methane is the standard configuration.				

RK Link Communication



- Bluetooth communication with iOS and Android phone app
- Direct readings from instrument
- Configure instrument settings
- Alarm Notifications
- Instrument locator



CONFINED SPACE ENTRY



VOC MONITORING



LEAK INVESTIGATION



FIRE INDUSTRY

Calibration Station

SDM-6100



- Stand-alone station
- Charge, calibrate, bump test, and alarm test
- Connect to PC (USB) or LAN (Ethernet)
- Connect up to 10 stations to receive gas from one source
- Included software collects calibration, bump test, alarm history, and exposure data from instruments
- Automatically power instruments on / off for scheduled calibration
- Configure GX-6100 parameters

Optional Accessories



**Bundles with
instrument, carrying case,
cal kit, & accessories**

**Benzene
tube holder**



**Benzene pre-filter
tubes**



Hose length up to 100'



Flexible probe



Authorized Distributor:



(800) 754-5165 • (510) 441-5656

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