

6 Gas, Sample Draw With PID, IR & Super Toxic Sensors

Gas Detection For Life

GX-6000



Simply put, the GX-6000 is a game changer. This powerful hand-held instrument is capable of simultaneously monitoring up to 6 gases. In addition to the standard 4 confined space gases which include combustibles, O2, CO, & H2S, the GX-6000 has 2 additional smart channels that accept PID, IR or super toxic sensors. Equipped with a strong internal sample pump,

a man-down alarm, a panic alarm, an LED flashlight, and large auto rotating LCD display, the GX-6000 can operate as a single gas PID unit or a multifunctional tool utilizing all 6 channels. The GX-6000 with a PID sensor will come equipped with a library of over 600 VOC gases to choose from as standard. Choosing from the library is easy with a personalized favorites list of 30 commonly used VOC's as well as a list of 8 of the most recently used VOC's. A benzene-specific version is available using a pre-filter tube for detecting low levels of benzene. Four PID sensors are available, 10.0 eV, 10.6 eV (low or high range), and 11.7 eV. Any combination of two PID sensors can be installed.

The GX-6000 has a rugged design built for the nastiest environments. It is equipped with a removable impact-resistant rubber boot and a dust and water resistant enclosure with an IP-67 rating. With 5 bright LED lights on 3 sides of the instrument, alarms are easily seen from a variety of perspectives. With vibration and loud audible alarm, GX-6000 will easily alert users when needed.



SDM-6000 Calibration Station

RKI Instruments, Inc. • 33248 Central Ave. Union City, CA 94587 • Phone (800) 754-5165 • (510) 441-5656 • Fax (510) 441-5650

GX-6000

		Ga	ases & Detectable Range	Common Specifications					
Gas		Measuring Range	Reading Increment	Alarm Set Points	Accuracy (which ever		Gas alarm	Man-down	Trouble
PID Sensors			is greater)						Low flow
10.6 Lamp	600 VOC's	0 - 50,000 ppb	1 ppb: (< 5000 ppb) 10 ppb: (> 5,000 ppb) 0.1 ppm: (< 600 ppm) 1 ppm: (> 600 ppm)	A1: 5,000 ppb		Alarm Types	Low and high 1 adjustable 2	1st - self reset 2nd - latching	Sensor connection
				A2: 10,000 ppb					Low battery
		0 - 6,000 ppm		A1: 400 ppm					Circuit error
				A2: 1,000 ppm					Calibration range
10.0 Lamp	Benzene Specific	0.1 - 50 ppm	0.01 ppm (0 ~ 10 ppm) 0.1 ppm (10 ~ 50 ppm)	No Alarms	± 10% of reading.	Sample Method	Sample draw pump, flow rate 0.45 LPM, 50 foot sample range		
	300 VOC's	0 - 100 ppm	0.01 ppm (0 ~ 10 ppm) 0.1 ppm (10 ~ 100 ppm)	A1: 5 ppm A2: 10 ppm	± 1 digit	Display	Digital LCD, autobacklight, peak bar display, auto display rotation, and customize order of gases		
Lamp	High Voltage	0 - 1000 ppm	0.1 ppm	A1: 400 ppm		Audible Alarm	95 dB at 1 ft.		
11.7	Lamp		0.1 ppm	A2: 1,000 ppm		Languages	English, Spanish, French, German, Italian, Japanese, Korean, Portuguese, Russian		
Ga	Ivanic					Quality	14 hours on Lithium-ion battery pack. Complete		
Oxygen (O2)		0 - 40.0% Vol.	0.1% Vol.	A1: 19.5 Vol.	+ 0.5% O2 Operation		8 hours Alkaline battery pack (3 AA size within each		
				A2: 23.5 Vol.	10.070 02		pack)		
Ele	ectro Chemica	al			[Operating	-4°F to 122°F (-20°C \sim +50°C), 0- 95% RH non condensing		
				A1: 25 ppm	+ 5% of & H	& Humidity			
Carbon Monoxide (CO)		0 - 500 ppm	1 ppm	TWA 25 ppm	reading or ± 5 ppm Dimensions	Dimensione	2.6" W x 7.8" H x 2" D (H200 x W68 x D52 mm) 14 ounce (400g) (with lithium battery pack)		
				STEL 200 ppm		Dimensions			
Hydrogen Sulfide (H2S)		0 - 100.0 ppm	0.5 ppm	A1: 5.0 ppm	± 5% of reading or ± 2 ppm	Case Material	Dust and water resistant with IP-67 approval (exclude sample hose and probe) Explosion proof: IECEx , ATEX , TIIS , cCSAus Explosion class :Ex ia IIC T4 Ga Others: CE Marking		
				A2: 30.0 ppm					
				TWA 1.0 ppm		Safety Design / Approvals			
Toxics (EC Son		sors)		STEL 5.0 ppm					
102				A1: 25 ppm			2 Smart sensors slots auto recognize sensor changes		
Arr	imonia (NH3)	0 - 400.0 ppm	0.5 ppm	A2: 50 ppm					
Chlorine		0 - 10.00 ppm	0.05 ppm	A1: 0.5 ppm		User defined VOC list. Up to 30 frequently used			
(Cl2)				A2: 1.0 ppm	± 10% of		Recent VOC list for last 8 selected gases		
Hydrogen Cyanide (HCN)		0 - 15.0 ppm	0.1 ppm	A1: 5 ppm A2: 10 ppm	teading or ± 5% of full scale	User & station ID selection menu Datalogging (interval, alarm trend, station and user ID)			
Nit	rogen Dioxide גיבר	0 - 20.00 ppm		A1: 3 ppm	Scale	Features	Snap logging - on demand data logging		
(INU2)			0.05 ppm	A2: 6 ppm		BUMP and CAL expiration alarm Flashlight IrDA communication			
(SO2)		0 - 99.90 ppm		A2: 5 ppm					
IR	Sensors						LEL sensor prot	tection mode	
		0 - 10 000 ppm	20 ppm	A1: 5,000 ppm			Rubber boot	Belt clip	
	arbon Dioxide :O2)		pp	TWA 5,000 ppm	± 5% of reading or ± 2% of full coalo	Hand strap Iapper nozzle Probe with hydrophobic & dust filter 3' teflon lined hose Benzene pre-filter tubes and holder (benzene versions)			
Ca (Ci		0 - 10.00% Vol.	0.02%	A1: 0.50% Vol					
				STEL 3.00% Vol		Optional	SDM-6000 calibration station Bundles with instrument carrying case and accessories Flexible probes		
				TWA 0.50% Vol					
Methane (CH4)		0 - 100% LEL		A1: 10% LEL A2: 50% LEL	scale	Accessories	Up to 50 foot sample hoses Filter set		
		0 - 100% Vol.	1% LEL/ 0.5% Vol				IrDA cable		
Hy	drocarbons	0 - 30% Vol.					Two yooro material (including concers) and		
Ca	talytic					Warranty	wo years material (including sensors) and workmanship. One year for PID sensor (Two months		
Ну	drocarbons	0 - 100% / El	1% LEL	A1: 10%LEL	± 5% of		for 11.7 eV lamp)		
(Cł	H4, std)	0 - 100% LEL		A2: 50%LEL	2% LEL				



Authorized Distributor:

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GX-6000 Quick Reference Card

1-6 Gas Instrument

Turning on your instrument

- · Press and hold POWER/ENTER button. Release it when the instrument beeps.
- · When warm-up sequence is completed, the normal operating screen is displayed.
- Note: If a failure occurs, press and release the RESET button. The failed channel's gas reading will be replaced by "- -". Replace the failed sensor as soon as possible.
- If Cal Reminder or Bump Reminder are set to on and a calibration or a bump test is due, see operator's manual for warm-up sequence.

Performing a fresh air adjustment

- Press and hold the AIR button in a fresh air environment. The LCD displays "HOLD AIR KEY".
- · Release the AIR button when the LCD prompts you to.
- · The instrument will set the fresh air reading for all channels.

Normal operating mode

- The gas concentration is displayed.
- · Battery charge level is indicated in upper left corner.
- The heart symbol displayed in the upper left corner flashes while the instrument is functioning properly.
- Fan symbol in upper right corner spins while pump is on.

Turning the instrument off

· Press and hold the POWER/ENTER button for approximately five seconds to turn off the unit.

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GX-6000 Quick Reference Card

1-6 Gas Instrument



World Leader in Gas Detection and Sensor Technoogy





GX-6000

6 gas, sample draw with PID & Super Toxics









				Part Senso	or Technology			
(ESS-03DH-XXX)			Pll	Defection	(DES-3311-1/2)			
GAS	RANGE		GAS	RANGE	GAS	RANGE		
Ammonia (NH3)	0-400 ppm	amp	600 VOC's	0-50,000 ppb	Carbon Dioxide (CO2)	0-10,000 ppm 0-10% Vol.		
Chlorine (Cl2)	0-10ppm	10.6 L		0-6,000 ppm	Methane (CH4)	0-100% LEL 0-100% Vol.		
Hydrogen Cyanide (HCN)	0-15ppm	Lamp	Benzene Specific	0.1-50 ppm	Hydrocarbons	0-100% LEL 0-30% Vol.		
Nitrogen Dioxide (NO2)	0-20 ppm	10.0	300 VOC's	0-100 ppm	Monitor Combustible environments. Monit	e gases in inert or wide range of		
Sulfur Dioxide (SO2) Monitor a wide variety plug and play sensors and can be remotely	0-99.9 ppm v of toxic gases. Smart are auto recognized calibrated	Priority order for instruments using both Smart Sensor slots: PID 10.6 eV low range PID 10.6 eV high range CL2 All other sensors						



























Calibration



- Remove the rubber nozzle from the top of the instrument and attach tube from gas cylinder to inlet fitting. Note: Must use a demand flow regulator or gas bag.
- Allow gas to flow for a maximum of two minutes.



















- With the unit OFF, press and hold the AIR and SHIFT keys.
- Press the **POWER/ENTER** key to turn instrument ON.
- USER MODE and MAINTENANCE mode will be displayed.
- Cursor will be next to USER MODE, press the SHIFT key to move cursor to MAINTENANCE, then press POWER/ENTER.























- Use the SHIFT or AIR keys to select the feature you would like.
- Press the **POWER/ENTER** key to select.
- Once completed, use the SHIFT key to scroll to START MEASURE to return to normal operation.



































 Locate the tabs on the electrode stack removal tool and insert them into the slots on the side of the PID sensor.

PID Lamp Cleaning






























































































RKI		Smart Sensor Technology					
Smart Electrochemical (ESS-03DH-XXX)		Photo Ionization Detection PID			Infrared (DES-3311-1/2)		
GAS	RANGE		GAS	RANGE	GAS	RANGE	
Ammonia (NH3)	0-400 ppm	dmp	600 VOC's	0-50,000 ppb	Carbon Dioxide (CO2)	0-10,000 ppm 0-10% Vol.	
Chlorine (Cl2)	0-10ppm	10.6 L		0-6,000 ppm	Methane (CH4)	0-100% LEL 0-100% Vol.	
Hydrogen Cyanide (HCN)	0-15ppm	Lamp	Benzene Specific	0.1-50 ppm	Hydrocarbons	0-100% LEL 0-30% Vol.	
Nitrogen Dioxide	0-20 ppm	10.0	300 VOC's	0-100 ppm	Monitor Combustible g environments. Monitor	e gases in inert or wide range of	
(1102)		Monitor low ppm VOC gases.			CO2.		
Sulfur Dioxide (SO2) 0-99.9 ppm Monitor a wide variety of toxic gases. Smart plug and play sensors are auto recognized and can be remotely calibrated			Priority order for instruments using both Smart Sensor slots: PID 10.6 eV low range PID 10.0 eV benzene PID 10.6 eV high range CL2 All other sensors				



























Calibration

- Remove the rubber nozzle from the top of the instrument and attach tube from gas cylinder to inlet fitting. Note: Must use a demand flow regulator or gas bag.
- Allow gas to flow for a maximum of two minutes.


























































































































































Training Notes

RKI Instruments, Inc. * 33248 Central Ave. * Union City CA 94587 * Rev. A