RKi Analytical Instruments
The Analyser People

20
1996-2016
RKI Analytical Instruments

GX-6000

Portable multi gas detector

CH₄ CO CO₂ Cl₂ HC HCN

H₂S NH₃ NO₂ PID SO₂ O₂

LONGLIFE
RIKEN Smart Sensor

RKI GX-6000

Ex

Features

- **Multi gas detection, 1 to 6 gases**
- **Smart sensors PID, IR, EC + 4 Standards (HC, O_2, CO, H_2S)**
- **Internal sample pump**
- **IP67 / operating temperature -20 to 50°C**
- **ATEX / IECEx / CE approvals**
- **Multi lingual full dot LCD display**
- **Calibration station SDM-6000 available**

RIKEN KEIKI
For a Safer World

Overview

This latest 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 (HC), O_2, CO, & H_2S, 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 a large auto rotating LCD display, the GX-6000 can operate as a single gas PID unit or as 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.

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. An additional screen protector makes the protection up.

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.

IrDA Communication

The built-in data logger allows you to record measurement data and save it to the internal memory. The optional data logger software can be used for managing instrument fleets. Consequently, you can also transmit the data wirelesses by infrared to a PC to analyze prior hazardous situations.

Password Protection

Because of the GX-6000 security features you are secured from accidental misconfigurations, which may influence measurement mode in a negative way and endanger the user.

All critical adjustments can be password protected. With the password protection it is possible to prevent a switching off of the instrument after activation.

Cal-Station SDM-6000

Stand Alone Station

The SDM-6000 is a versatile maintenance tool that automates the service of a GX-6000 portable gas monitor. This docking station can be used as a stand alone device for charging, calibration and bump testing, with all records stored automatically for future upload to a PC via SD card.

Up to 10 calibration stations can also be connected to one PC for calibration, bump testing and archiving of data.

All data collected from the PC Controlled software is available on the PC.

Modular Design

SDM-6000 calibration stations are modular by design and can easily connect to each other without the need of any tubes or cables.

One power source and one set of calibration equipment can provide service for up to 10 SDM-6000 calibration stations.
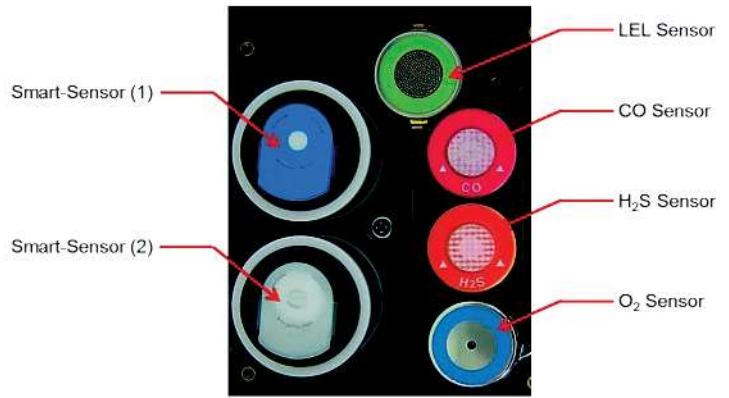

SDM-6000 Modular Desgin with SV-3 solenoid valve

Sensors

High flexibility : 4 Standards: HC, CO, H$_2$S, O$_2$
2 Smart sensors selectable:
EC, IR, PID

Please check cross sensitivities of gases befor the gas configuration.

Sensor panel labels: Smart-Sensor (1), Smart-Sensor (2), LEL Sensor, CO Sensor, H$_2$S Sensor, O$_2$ Sensor

	Gases & Detectable Ranges				
	Gas	**Measuring Range**	**Minimum Display**	**Alarm Set Points**	**Accuracy**
Standard Sensors	Catalytic Sensor				
	Hydrocarbons	0 - 100% LEL	1% LEL	A1: 10% LEL / A2: 50% LEL	± 5% of reading or ± 2% LEL
	Galvanic Sensor				
	Oxygen (O$_2$)	0 - 40% Vol.	0.1% Vol.	A1: 19.5% Vol. / A2: 23.5% Vol.	± 0.5% O$_2$
	Electro Chemical Sensor				
	Carbon Monoxide (CO)	0 - 500 ppm	1 ppm	A1: 25 ppm / A2: 50 ppm	± 5% of reading or ± 5 ppm
				TWA 25 ppm / STEL 200 ppm	
	Hydrogen Sulfide (H$_2$S)	0 - 100 ppm	0.5 ppm	A1: 5.0 ppm / A2: 30.0 ppm	± 5% of reading or ± 2 ppm
				TWA 1.0 ppm / STEL 5.0 ppm	
Smart Sensors	Toxics (EC Sensors)				
	Ammonia (NH$_3$)	0 - 400 ppm	0.5 ppm / 5 ppm	A1: 25 ppm / A2: 50 ppm	± 10% of reading or ± 5% of full scale
	Chlorine (Cl$_2$)	0 - 10 ppm	0.05 ppm / 0.1 ppm	A1: 0.5 ppm / A2: 1.0 ppm	
	Hydrogen Cyanide (HCN)	0 - 15 ppm	0.1 ppm	A1: 5 ppm / A2: 10 ppm	
	Nitrogen Dioxide (NO$_2$)	0 - 9 ppm	0.05 ppm	A1: 3 ppm / A2: 6 ppm	
	Sulfur Dioxide (SO$_2$)	0 - 6 ppm		A1: 2 ppm / A2: 5 ppm	
	IR Sensors				
	Carbon Dioxide (CO$_2$)	0 - 10000 ppm / 0 - 5% Vol.	25 ppm / 0.2%	A1: 5000 ppm	± 5% of reading or ± 2% of full scale
				TWA 5000 ppm / STEL 10000	
	Methane (CH$_4$)	0 - 100% LEL / 0 - 100% Vol.	Vol. 1% LEL / 0.5% Vol	A1: 10% LEL A2: 50% LEL	
	PID Sensors				
	VOC	0 - 50000 ppb	1 ppb: (< 5000 ppb) 10 ppb: (> 5000 ppb)	A1: 5000 ppb A2: 10000 ppb	± 5% of full scale
		0 - 6000 ppm	0.1 ppm: (< 600 ppm) 1 ppm: (> 600 ppm)	A1: 400 ppm A2: 1000 ppm	

TOP Service Program

RKI Analytical Instruments offers follow-up services to give our customers extensive care for a fixed and affordable price so that running costs are manageable. The development and production of high-quality gas measuring technology on one hand and experienced engineering, professional installation and maintenance on the other hand - RKI covers all of them.

Our Top Service:
- Response time within **48 hours** (working days)
- Function control, repair
- Two times gas calibration every year
- Calibration certificate

Services performed preventive:
- Filter exchange
- Sensor exchange
- Cleaning

RIKEN KEIKI
For a Safer World

Modell	GX-6000		
Alarm Types	Gas alarm	Man-down	Trouble
	Low and high adjustable	1st - self reset 2nd - latching	Low flow, sensor connection, low battery, circuit error, calibration range
Sample Method	Sample draw pump, flow rate 0.45 L / min, 15 m sample range		
Display	Digital LCD, autobacklite, peak bar display, auto display rotation and customize order of gases		
Languages	English, German,Spanish, French, Italien, Portuguese, Russian, Japanese, Korean		
Continuous Operation	Lithium-ion battery pack: 14 hours / complete recharge in 3 hours 3 x AA Alkaline batteries: 8 hours		
Operating Temp. & Humidity	-20 to +50°C, 0 to 95% RH (non condensing)		
Dimensions & Weight	Approx. 200 x 68 x 52 mm, 0.4 kg (with lithium battery pack)		
Safety Class	IP67		
Approvals	IECEx, ATEX, TIIS, CE		
Standard Features	2 x Smart sensors slots, auto recognize sensor changes, 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, IrDA communication, LEL sensor protection mode		
Standard Accessories	Rubber boot, belt clip, hand strap, tapper nozzle, probe with hydrphobic filter, users manual		
Optional Accessories	Lithium-ion battery unit & charger / alkaline battery unit, Filter set, IrDA cable, Cal-Station SDM-6000		

Modell	SDM-6000
LED	Each status is indicated by Lighting / Blinking (Green, Red, Orange)
Display	Touch panel TFT LCD, back light
Languages	English, German, Spanish, Italian, French, Portuguese, Russian, Japanese, Korean
Power (AC Adapter)	100 ~ 240 VAC ~ 50 / 60 Hz
Operating Temp. & Humidity	0 to 40°C, 0 to 95% RH (non condensing)
Dimensions & Weight	approx. 130 x 330 x 183 mm; 1.7 kg
Approval	CE
Bump Test	**Standard setting values**: AIR Flush time: 15 sec, GAS time: 20 sec, AIR Purge time: 5 sec, Threshold value: ± 50%, **Setting range**: AIR Flush time: 15 - 120 sec, GAS time: 20 - 120 sec, AIR Purge time: 5 - 120 sec, Threshold value: ± 10 - 50%
Calibration	**Standard setting values:** AIR Flush time: 30 sec, GAS time: 90 sec, AIR Purge time: 30 sec **Setting ranges**: AIR Flush time: 15 - 120 sec, GAS time: 20 - 120 sec, AIR Purge time: 5 - 120 sec
USB Printer Port	A type: Connects SDM-6000 printer (SII, DPU-S245) via USB cable
RJ-45 Connektor	Ethernet port for a LAN connection
SD Card Slot	Compatible with SD & SDHC cards
Joint Connctor	Connecting SDM-6000 (Max 10 units) and SV-3
Inlet	4 inlets: GAS 1 / GAS 2 / GAS 3 / AIR
Standard Features	Charging, Alarm activation check, backlight adjusting, buzzer function, self-diagnosis
Standard Accessories	Users Manual, filter, tube
Optional Accessories	SV-3 solenoid valve adds 3 additional calibration gas inputs, AC adaptor (15 W / 100 W output), calibration station utility software, calibration gas & regulators, tubing, connecting plate, wall mount plate, PC controller software

Specification subject to change without notice.

Authorized Distributor:

UNIGAS MARINE Srl
Via Righetti 9/1
16146 Genova (ITALY)
tel. +39 010 8062197
Email: info@unigasmarine.it
Web: www.unigasmarine.it

GX-6000_EH_V2.0_GB
In Deutschland gedruckt.

RIKEN KEIKI
For a Safer World