geotech

Personal Multi-Gas Monitors

RKI GX-3R and GX-3R Pro Multi-Gas Monitors

The RKI GX-3R and GX-3R Pro instruments are the world's smallest personal multi-gas monitors. Capable of simultaneously measuring LEL, O_2, CO, and H_2S - these instrument are wearable and ideal for worker safety applications. They feature newest generation micro sensor technology that include an LEL with dual filament silicone protection, an electrochemical O_2 sensor with a 5 year life expectancy, and available combination H_2S/CO sensor.

The RKI GX-3R Pro includes an additional 5th channel for infrared or toxic sensors.

FEATURES

- **Simple 2-button operation**
- **Adjustable audible, visual, and vibration alarms**
- **Impact resistant IP66/68 enclosure with protective rubber boot**
- **Large LCD display with backlight**
- **Alkaline or long lasting Li-Ion battery - up to 25 hours of continuous operation**
- **Field serviceable sensors and filters**
- **Non-compliance alarm – calibration due or gas alarm event**
- **Bluetooth with IOS & Android (GX-3R PRO only)**
- **Man down alarm (GX-3R Pro only)**
- **Panic alarm (GX-3R Pro only)**
- **3-Year Warranty**

OPTIONAL EQUIPMENT

- **Attachable Sampling Pump**
- **Padded Carry Case**
- **Download Cable for Data Logging**
- **Calibration Station**
- **Hand Aspirator**

RKI GX-3R

RKI GX-3R Pro

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.
2650 East 40th Avenue • Denver, Colorado 80205
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Personal Multi-Gas Monitors

RKI GX-3R and GX-3R Pro Multi-Gas Monitors

RKI GX-3R SPECIFICATIONS

Gas Detected	(CO) H_2 Compensated	Carbon Monoxide (CO)	Hydrogen Sulfide (H_2S)	H_2S Only	Combustible Gases (Methane as standard)
		Dual Sensor			
Sensor Slot	1				2
Detection Principle	EC	Dual EC		EC	Catalytic Combustion
Detection Range (Increments)	0 ~ 2,000 ppm (1 ppm)		0 ~ 200.0 ppm (0.1 ppm)		0 ~ 100% LEL (1% LEL)
Accuracy Statement	±5% of reading or ±2 ppm CO	±5% of reading or ±5 ppm CO (whichever is greater)	±5% of reading or ±2 ppm H_2S (whichever is greater)		±5% of reading or ±2% LEL (whichever is greater)
Sampling Method	Diffusion sampling standard (hand aspirator or clip-on motorized pump optional)				
Display	Digital LCD displays with 7 segment plus 14 segment plus icon				
Preset Alarms (User Adjustable) Overscale Alarm (Non-adjustable)	1st alarm: 25.0 ppm 2nd alarm: 50.0 ppm 3rd alarm: 1200.0 ppm TWA alarm: 25.0 ppm STEL alarm: 200.0 ppm Over alarm: 2000.0 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		1st alarm: 10% LEL 2nd alarm: 25% LEL 3rd alarm: 50% LEL Over alarm: 100% LEL
Types of Alarms	Gas Alarm: 3 Increasing alarms, STEL, TWA, overscale alarm. O_2 decreasing/increasing. Trouble Alarm: Sensor disconnection, low battery, circuit error, calibration range error				
Display of Alarm	Gas Alarm: Flashing LEDs, continuous buzzer (100 db @ 30 cm), flashing gas value, vibration Trouble Alarm: Flashing LEDs, intermittent buzzer (95 db @ 30 cm), display of error message				
Operating Temp. & Humidity	-20℃ ~ +50℃ [-4°F ~ +122°F], 10 to 90% RH, non-condensing (continuous environment) -40℃ ~ +60℃ [-40°F ~ +140°F], 0 to 95% RH, non-condensing (temporary environment, 15 minutes)				
Response Time	Within 30 seconds (T90)				
Power Source	Lithium-ion battery, Approx. 25 hours after a 3 hour full charge				
Approvals	ATEX, CSA (Pending)				
Dimension & Weight	2.2" W x 2.55" H x 1.02" D (Approx. 58 W x 65 H x 26 D mm), 3.52 ounces (approx. 100 g) without rubber booth 2.4" W x 2.63" H x 1.06" D (Approx. 61 W x 67 H x 27 D mm), 3.70 ounces (approx. 105 g) with rubber booth				
Case Material	Explosion proof, dust and water resistant to IP-66/68 (2m, 1h) approval. Drop height 23 ft.				
Controls	Two buttons: POWER/MODE, AIR				
Datalogging	Logs user ID, station ID, Calibration & Bump Test history, Alarm Events & Alarm Interval Trends				
Standard Accessories	Alligator clip, protective rubber boot, charger, and calibration adapter				
Optional Accessories	SDM-3R calibration station RP-3R Clip-on sampling pump with 4" rubber nipple, 10' hose and probe (up to 40' hose available) Padded carrying case for GX-3R and accessories USB to IrDA downloading cable for datalogger				
Warranty	Three years material and workmanship				

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RKI GX-3R PRO SPECIFICATIONS

Detectable Gases

Gas		Measuring Range (Increments)	Accuracy Statement	Preset Alarms
Sensor Slot 1: Carbon Monoxide (CO) & Hydrogen sulfide (H$_2$S) *Interchangeable				
H$_2$S/CO	Dual EC	0 ~ 2000 ppm (1 ppm)	±5% of reading or ±5 ppm CO	A1: 25 ppm │ A2: 50 ppm A3:1200 ppm │ TWA: 25 ppm STEL: 200 ppm
		0 ~ 200.0 ppm (0.1 ppm)	±5% of reading or ±2 ppm H$_2$S	A1: 5 ppm │ A2: 30 ppm A3: 100 ppm │ TWA: 1.0 ppm STEL: 5.0 ppm
H$_2$S Only	EC	0 ~ 200.0 ppm (0.1 ppm)	±5% of reading or ±2 ppm H$_2$S	A1: 5 ppm │ A2: 30 ppm A3: 100 ppm │ TWA: 1.0 ppm STEL: 5.0 ppm
CO H$_2$ Compensated	EC	0 ~ 2,000 ppm	±5% of reading or ±2 ppm CO	A1: 25 ppm │ A2: 50 ppm A3: 1200 ppm │ TWA: 25 ppm STEL: 200 ppm
Sensor Slot 2: Combustibles (Methane as standard)				
CH$_4$/HC	Catalytic	0 ~ LEL (1% LEL)	±5% of reading or ±2% LEL	1st: 10% LEL │ 2nd: 25% LEL 3rd: 50% LEL │ Over: 100% LEL
Sensor Slot 3: Oxygen (O$_2$)				
O$_2$	EC	0 ~ 40.0% Vol. (0.10%)	±0.5% O$_2$	Low 1: 19.5% │ Low 2: 18.0% High: 23.5% │ Over: 40.0%
Sensor Slot 4: Toxics & CO$_2$ *Interchangeable				
SO$_2$	EC	0 ~ 100.0 ppm (0.05 ppm)	±10% of reading or ±5% of full scale	A1: 2 ppm │ A2: 5 ppm A3: 100 ppm │ TWA: 0.25 ppm STEL: 0.25ppm
CO$_2$%	IR**	0 ~ 10.0% Vol. (0.01%)	±5% of reading or ±2 ppm	A1: 0.50% Vol. │ A2: 3.00% Vol. A3: 4.00% Vol. │ TWA: 0.50% Vol. STEL: 3.00% Vol.
CO$_2$ ppm	IR**	0 ~ 10,000 ppm (20 ppm)	±5% of reading or ±2 ppm	A1: 5,000 ppm │ A2: N/A TWA: N/A │ STEL: N/A

*Specifications subject to change without notice
**Available August 2019

RP-3R Clip-On Sampling Pump

SDM-3R Calibration Station with Instrument

General Specifications

Sampling Method	Diffusion sampling standard (hand aspirator or clip-on motorized pump optional)
Display	Full dot LCD with Auto-backlight and Auto-rotation
Alarm Types	**Gas Alarm** • 2 increasing alarms • STEL • TWA • Overscale alarm • O$_2$ decreasing/increasing **Trouble Alarm** • Sensor disconnection • Low battery • Circuit error • Calibration range error • Cal or bump due alarm • Man Down Alarm • Panic Alarm
Display of Alarm	**Gas Alarm** • Flashing LED's • Continuous buzzer (100 db @ 30cm) • Flashing gas value • Vibration **Trouble Alarm** • Flashing LED's • Intermittent buzzer (95 db @ 30cm) • Display of error message
Operating Temp. & Humidity	-20°C ~ +50°C [-4°F ~ +122°F] 10 to 90% RH, non-condensing (continuous environment) -40°C ~ +60°C [-40°F ~ +140°F] 0 to 95% RH, non-condensing (temporary environment)
Response Time	Within 30 seconds (T90)
Power Source	Config — Li-ion — Alkaline 4-gas + EC — 25 hours — 16 hours 4-gas + IR — 16 hours — 7 hours
Dimension & Weight	2.9" W x 2.6" H x 1.06" D (Approx. 73 W x 65 H x 26 D mm) 4.58 oz. (with rubber boot)
Case Material	Explosion proof, dust and water resistant to IP-66/68 (2m, 1h) approval. Drop height 23 ft.
Bluetooth Comm.	BLE: with iOS and Android phone app: RK Link
Datalogging	Logs user ID, station ID, Calibration & Bump Test history, Alarm Events & Alarm Trends
Standard Accessories	Alligator clip, protective rubber boot, charger, calibration adapter
Optional Accessories	• Padded carrying case • RP-3R Attachable sampling pump with 4" rubber nipple, 10' hose and probe (up to 40' hose available) • USB to IrDA downloading cable for datalogger • SDM-3R calibration station • Hand aspirator
Safety Design/ Approvals	ATEX, CSA (Pending)
Warranty	Three years material and workmanship including sensors