

# GX-3R Pro



The MED approved Riken Keiki GX-3R PRO is the smallest and lightest state of the art personal 5 gas instrument on the market. Size is only 73 mm wide, 65 mm high and weighing 140g. The Riken Keiki GX-3R PRO is perfect for maritime and industrial application, where the operator requires “the extra touch”. Its 3 year sensor replacement interval, makes it the most economical solution on the market.

Its differs from its competitors by offer a Bluetooth connectivity for actively follow alarm setups, alarm situations and other. You can install the smartphone application “RK Link” from Google Play or the App Store. Fleet of 10 instruments can be assembled into one HMI

## Product description

The Riken Keiki GX-3R PRO is the smallest and lightest 5 Gas monitor available. The Riken Keiki GX-3R pro is in comparison to the GX-3R capable of detecting five gas types separately. With a size of 73 mm wide, 65 mm high and weighing 140g, the Riken Keiki GX-3R PRO can be defined as top quality product.



The Riken Keiki GX-3R will be delivered with Lithium Ion battery with 25h capacity however has option for a build-in extended battery mode which allows the monitor to be used continuously for up to 40 hours before recharging. IP66/68 compliance, as well as a three-year sensor warranty, allows the Riken Keiki GX-3R to be used with confidence.

The Riken Keiki GX-3R has an operating temperature range of -40 degrees Celcius to +60 degrees Celcius (intermittent) or -20 degrees Celcius +50 degrees Celcius (continuous) making the GX-3R PRO extremely suitable in many different environments and applications.

## Features

- ✓ Smallest & lightest 5 gas monitor
  - 65(H) x 73(W) x 26(D) mm (2.6”H x 2.9”W x 1.0”D) 120 g (4.2 oz.)
- ✓ Simultaneous detection of 5 gases
  - LEL, O<sub>2</sub>, H<sub>2</sub>S, CO, and other optional sensors
  - H<sub>2</sub> Compensated CO sensor available
- ✓ Simple 2-button operation
- ✓ Bluetooth communication with iOS & Android App
- ✓ Non-Compliance Indicator
- ✓ 3 user adjustable alarm levels
- ✓ Panic Alarm
- ✓ Man Down Alarm
- ✓ Impact resistant body
- ✓ Large full dot, auto-backlit display with auto-rotation
- ✓ Stealth mode for law enforcement
- ✓ Field replaceable sensors & filters
- ✓ Water and dust resistant design, IP66/68
- ✓ 3 year warranty

**GX-3R Model: Detectable Gases**

Gas	Measuring Range (Increments)	Accuracy Statement	Preset Alarms	
Sensor Slot 1: Carbon Monoxide (CO) & Hydrogen sulfide (H <sub>2</sub> S) Interchangeable				
H <sub>2</sub> S/CO	Dual EC	0 ~ 2000 ppm (1 ppm)	± 5% of reading or ± 5 ppm CO	A1: 25 ppm A2: 50 ppm A3: 1200ppm TWA: 25 ppm STEL: 200 ppm
	Dual EC	0 ~ 200.0 ppm (0.1 ppm)	± 5% of reading or ± 2 ppm H <sub>2</sub> S	A1: 5 ppm A2: 30 ppm A3: 100ppm TWA: 1.0 ppm STEL: 5.0 ppm
H <sub>2</sub> S Only	EC	0 ~ 200.0 ppm (0.1 ppm)	± 5% of reading or ± 2 ppm H <sub>2</sub> S	A1: 5 ppm A2: 30 ppm A3: 100ppm TWA: 1.0 ppm STEL: 5.0 ppm
CO H <sub>2</sub> Compensated	EC	0 ~ 2000 ppm	± 5% of reading or ± 2 ppm CO	A1: 25 ppm A2: 50 ppm A3: 1200ppm TWA: 25 ppm STEL: 200 ppm
Sensor Slot 2: Combustibles (Methane as standard)				
CH <sub>4</sub> / HC	Catalytic	0 ~ 100% LEL)	± 5% of reading or ± 2% LEL	1st: 10% LEL 2nd: 25% LEL 3rd: 50% LEL Over: 100% LEL
Sensor Slot 3: Oxygen (O <sub>2</sub> )				
O <sub>2</sub>	EC	0 ~ 40.0% (0.10%)	± 0.5% O <sub>2</sub>	Low 1: 19.5% Low 2: 18.0% High: 23.5% Over: 40.0%

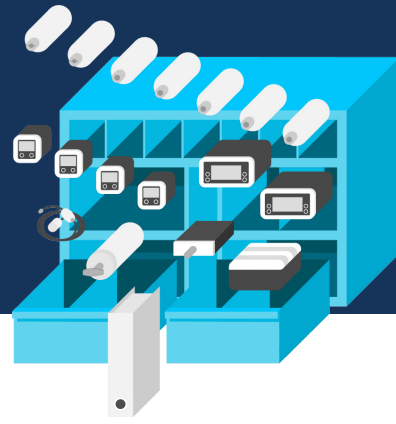
Sensor Slot 4: Toxics & CO<sub>2</sub> Interchangeable

HCN	EC	0 ~ 30.0 ppm (0.1 ppm)	± 10% of reading or ± 5% of full scale	A1: 5.0 ppm A2: 10.00 ppm A3: 30.00 ppm TWA: 4.7 ppm STEL: 10 ppm
NH <sub>3</sub>		0 ~ 400.0 ppm (0.5 ppm)		A1: 25.0 ppm A2: 35.0 ppm A3: 300.0 ppm TWA: 0.3 ppm STEL: 1.0 ppm
NO <sub>2</sub>		0 ~ 20.00 (0.05 ppm)		A1: 2.00 ppm A2: 4.00 ppm A3: 20.00 ppm TWA: 0.20 ppm STEL: 1.00ppm
PH <sub>3</sub>		0 ~ 20.00 ppm (0.01 ppm)		A1: 0.30 ppm A2: 0.60 ppm A3: 0.60 ppm TWA: 0.30 ppm STEL: 1.0 ppm
SO <sub>2</sub>		0 ~ 100.0 ppm (0.05 ppm)		A1: 2 ppm A2: 5 ppm A3: 100ppm TWA: 0.25 ppm STEL: 0.25 ppm
CO <sub>2</sub> %	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 <sub>2</sub> ppm		0 ~ 10000 ppm (20 ppm)		A1: 5000 ppm A2: N/A TWA: N/A STEL: N/A

## GX-3R Pro Model: Common Specifications

Sampling Method	Diffusion sampling standard (hand aspirator or clop-on motorized pump optional)	
Display	Full dot LCD with Autobacklight and Autorotation	
Alarm Types	<b>Gas Alarm</b> <ul style="list-style-type: none"> <li>• 2 increasing alarms</li> <li>• STEL</li> <li>• TWA</li> <li>• Overscale alarm</li> <li>• O<sub>2</sub> decreasing/increasing</li> </ul>	<b>Trouble Alarm</b> <ul style="list-style-type: none"> <li>• Sensor disconnection</li> <li>• Low battery</li> <li>• Circuit error</li> <li>• Calibration range error</li> <li>• Cal or bump due alarm</li> </ul>
	<ul style="list-style-type: none"> <li>• Man Down Alarm</li> <li>• Panic Alarm</li> </ul>	
Display of Alarm	<b>Gas Alarm</b> <ul style="list-style-type: none"> <li>• Flashing LED's</li> <li>• Continuous buzzer (100 db @ 30cm)</li> <li>• Flashing gas value</li> <li>• Vibration</li> </ul>	<b>Trouble Alarm</b> <ul style="list-style-type: none"> <li>• Flashing LED's</li> <li>• Intermittent buzzer (95 db @ 30cm)</li> <li>• Display of error message</li> </ul>
Operating Temp. & Humidity	- 20°C ~ +50°C [- 4°F ~ +122°F], 10 to 90% RH, non-condensing (continous 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
	4-gas + EC	25 hours
	4-gas + IR	16 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 ounces with rubber boot	
Case Material	Explosion proof, dust and water resistant to IP-66/68 (2m, 1h) approval. Drop height 23 ft	
Bluetooth Communication	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, and calibration adapter	
Optional Accessories	<ul style="list-style-type: none"> <li>• Padded carrying case</li> <li>• RP-3R Attachable sampling pump with 4" rubber nipple, 10' hose and probe (up to 40' hose available)</li> <li>• USB to IrDA downloading cable for datalogger</li> <li>• SDM-3R calibration station</li> <li>• Hand aspirator</li> </ul>	
Safety Design/ Approvals	IECEX, ATEX, INMETRO, CE MED	
Warranty	Three years material and workmanship including sensors	

# The Bruusgaard System



TBS is a unique turnkey portable gas detection solution, giving you increased safety and substantial cost savings through standardised instruments, routines, training and procurement.

## Logistic Support

At any given time we know the status of all vessels and sites covered by The Bruusgaard System. We consolidate all shipments and make sure you have everything you need on board until next scheduled delivery. This results in fewer shipments and substantial savings!

- Year round follow up of instruments, spares and consumables
- Handling of all shipments & logistics
- Annual reports per vessel including budgeting



## Safety

QA – strict routines and logging

- Crew are able to use instruments and follow routines correctly
- Instruments are in proper working condition at all times
- Instruments are calibrated at correct intervals
- Sensors and other items are replaced at correct intervals
- Usage of instruments is logged, including abnormal observations
- Traceability – instrument history and usage
- Routines and procedures can merge into the overall QA-system

Effective and proven training is an integrated part of The Bruusgaard System.

## Instruments

All the equipment used for gas detection and calibration is placed in a custom-made wall cabinet. Including Log & Instruction Manual, which are crucial to maintaining the safety integrity.

- Standardised vessel specific gas detector solutions
- Total solutions including all equipment and routines necessary for efficient and safe use, storage and maintenance

## Cost Savings

Some of our customers have been able to go from 8 to 10 suppliers down to 1 – translating into cost savings of up to 40-50%. For one vessel, this could be thousands of dollars annually, and for a whole fleet, the cost savings can be dramatic. This is achieved through:

- One contact for worldwide supply of spares & gases
- All service and calibration can be done on site.
- Reductions of instrument types from 10-12 to 2-3

Reduced maintenance costs through:

- On board calibration
- Fewer instruments on board
- No need for spares on board
- One PO per year
- Increased safety
- Less use of administrative time