

# GX-3R

The MED approved Riken Keiki model GX-3R is the smallest and lightest state of the art personal 4 gas instrument on the market. Its 3 year sensor replacement interval, makes it the most economical solution on the market.

## Product description

The Riken Keiki GX-3R is the smallest and lightest 4 Gas monitoring instrument available. With a size of only 58 mm wide, 65 mm high and weighing 100g, the Riken Keiki GX-3R can be defined as state of the art gas instrument. The Riken Keiki GX-3R is perfect for maritime and industrial application, and the size means it does not interfere with work even if it is attached in the breathing zone.

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 GX-3R provides 3 preset alarm settings per gas plus an additional alarm for a higher detection range. The GX-3R internal data logger allows 3600 event logs and 300 hours which can be read out using an IrDA link. A loud 95dB alarms buzzer is also a built-in feature.

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 extremely suitable in many different environments and applications.

## Features

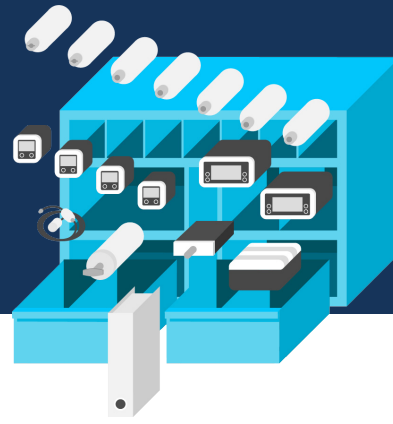
- ✓ Smallest & lightest 4 gas monitor  
2.2" W x 2.55" H x 1.02" D, 3.52 ounces
- ✓ Simultaneous detection f 4 gases  
- LEL, O2, H2S & CO  
- H2 Compensated CO sensor available
- ✓ Simple 2-button operation
- ✓ Non-Compliance Indicator
- ✓ Alarms: audible, visual & vibration
- ✓ 3 user adjustable alarm levels
- ✓ Impact resistant body with removable rubber boot
- ✓ Large LCD Auto-backlit display
- ✓ 25 hours of operation (Lithium-ion battery)
- ✓ Field replaceable sensors & filters
- ✓ Water and dust resistant design, IP66/68
- ✓ Stealth mode for law enforcement
- ✓ 3 year warranty



# Technical specifications

GX-3R Model						
Gas Detected	(CO) H2 Compensated	Carbon Monoxide (CO)	Hydrogen Sulfide (H2S)	H2S Only	Combustible Gases (Methane as standard)	Oxygen (O2)
	Dual Sensor					
Sensor Slot	1		2		3	
Detection Principle	EC	Dual EC		EC	Catalytic combustion	Electrochemical cell
Detection Range (Increments)	0 ~ 2000 ppm (1 ppm)		0 ~ 200.0 ppm (0.1 ppm)		0 ~ 100% LEL (1% LEL)	0 ~ 40.0% Vol. (0.1%)
Accuracy Statement	± 5% of reading or ± 2 ppm CO	± 5% of reading or ± 5ppm CO (whichever is greater)		± 5% of reading or ± 2 ppm H2S (whichever is greater)	± 5% of reading or ± 2% LEL (whichever is greater)	± 0.5% O2
Sampling Method	Diffusion sampling standard (hand aspirator or clip-on motorized pump optional)					
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	Low 1 alarm: 19.5% Low 2 alarm: 18.0% High alarm: 23.5% Over alarm: 40.0%
Types of alarm	Gas alarms: Trouble alarms:	3 Increasing alarms, STEL TWA, overscale alarm. O2 decreasing/increasing Sensor disconnection, low battery, circuit error, calibration range error				
Display of alarm	Gas Alarms: Trouble alarms:	Flashing LEDs, Continuous buzzer (100 db @30 cm), Flashing gas value, Vibration Flashing LEDs, Intermittent buzzer (95 db @30 cm), display of error message				
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, 15 minutes)					
Response Time	Within 30 seconds (T90)					
Power source	Lithium ion battery, Approx. 25 hours after a 3 hour full charge					
Approvals	IECx, ATEX, INMETRO, CE MED					
Dimensions & 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 boot 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 boot					
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					

# 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