

Ensure Your Safety with the

Riken Keiki GX-9000 Gas Detector

Introducing the new Riken Keiki GX-9000 Gas Detector - a state-of-the-art portable multi-gas detector designed to protect individuals in hazardous environments. This cutting-edge device can simultaneously detect up to 6 different gases, setting new standards in safety and reliability. Its highly sensitive sensors ensure precise detection of toxic gases, flammable vapors, and oxygen depletion, providing you with accurate readings to keep you safe.

Versatile Connectivity

Easily connect the GX-9000 to external devices such as printers or computers for seamless data transfer and analysis. Integrate it into your existing safety systems for efficient management of gas detection data.

Invest in your safety with the Riken Keiki GX-9000 Gas Detector. With its advanced features, reliable performance, and user-friendly operation, the GX-9000 is the ultimate tool for professionals in hazardous environments. Stay ahead of potential dangers with the GX-9000 as your trusted companion for gas detection and monitoring.



Special Features

- ✓ Detects up to six different gas types simultaneously (HC/CH₄/H₂/O₂/CO/H₂S/CO₂/NH₃/VOCs etc)
- ✓ Combustible gas conversion function, select from a library of 25 combustible gases for direct reading
- ✓ Up to 45 meters sampling height
- ✓ Bluetooth equipped, easy data management via smartphone (Optional)
- ✓ Up to 3 years sensor warranty
- ✓ Rugged and robust
- ✓ Passes 1.5M drop test
- ✓ Protection rating equivalent to IP66/68
- ✓ MED approval pending

Applications

- ✓ Oil and gas storage depots
- ✓ Tank Farms
- ✓ Petrochemical plants
- ✓ Oil Tanker / Gas Carrier Chemical Tanker / Bulk Carrier
- ✓ Gas Plant / Gas Supplier Services
- ✓ Confined Space
- ✓ Industry Refineries
- ✓ Petrochemical / Chemical Plants Water
- ✓ Wastewater Treatment
- ✓ Power Plants / Fuel Cell Facilities

Product Specifications

Model	GX-9000	GX-9000H	
Concentration display	LCD digital (full dot)		
Detection target gas	Combustible gas (i-C ₄ H ₁₀ /CH ₄ /H ₂ /C ₂ H ₂), oxygen (O ₂), toxic gas (H ₂ S [low concentration]/CO/NH ₃ /Cl ₂ /O ₃ /HCl/SO ₂ /VOCs), carbon dioxide (CO ₂)	Combustible gas (i-C ₄ H ₁₀ /CH ₄), oxygen (O ₂), Hydrogen sulfide (H ₂ S [low concentration] [high concentration]), carbon monoxide (CO)	
Detection method	Pump suction type		
Suction flow rate	Minimum 0.75 L/min (open flow rate)		
Display items	Clock, battery level, operating status		
Display languages	English, Cantonese (Traditional Chinese), Czech, French, German, Italian, Japanese, Korean, Mandarin (Simplified Chinese), Polish, Portuguese, Russian, Slovak, Spanish, Turkish, Vietnamese		
Buzzer volume	Approx. 95 dB (mean value at 30 cm from sound source)		
Gas alarm indication	Lamp flashing, continuous modulating buzzer sounding, gas concentration readout blinking		
Gas alarm pattern	Self-latching, auto reset		
Fault alarm/self-diagnosis	Flow abnormality, system abnormality, sensor abnormality, low battery voltage, calibration failure, clock abnormality		
Fault alarm icon	Lamp flashing, intermittent buzzer sounding, detail display		
Fault alarm pattern	Self-latching		
Communication specifications	USB 2.0 Type-C (for data logger/setting), Bluetooth 4.2 (Bluetooth Low Energy)		
Power source	Dedicated lithium ion battery unit (BUL-9000) or dedicated dry battery unit (AA alkaline batteries × 6) (BUD-9000)		
Continuous operating time* ¹	Lithium ion battery unit: Approx. 25 hours Dry battery unit: Approx. 12 hours (at 25 °C, no alarm, no lighting)	Lithium ion battery unit: Approx. 35 hours Dry battery unit: Approx. 15 hours (at 25 °C, no alarm, no lighting)	
Operating temperature range* ²	Approx. 15-minute temporary use environment: -40 °C - +60 °C (no sudden changes) Continuous use environment: -20 °C - +50 °C (no sudden changes)	Approx. 15-minute temporary use environment: -40 °C - +60 °C (no sudden changes) Continuous use environment: -20 °C - +50 °C (no sudden changes)	
Operating humidity range* ²	Approx. 15-minute temporary use environment: 0 %RH - 95 %RH (no condensation) Continuous use environment: 10 %RH - 90 %RH (no condensation)	Approx. 15-minute temporary use environment: 0 %RH - 95 %RH (no condensation) Continuous use environment: 10 %RH - 90 %RH (no condensation)	
Operating pressure range	80 kPa - 120 kPa (80 kPa - 110 kPa for explosion-proof range)		
Construction	Dustproof, waterproof construction equivalent to IP66/68* ³ , drop resistant to 1.5 m		
Explosion-proof construction	Intrinsically safe explosion-proof construction, flame-proof enclosures (with new ceramic type sensor) Intrinsically safe explosion-proof construction (without new ceramic type sensor)		
Explosion-proof class	IECEX Ex da ia IIC T4 Ga (with new ceramic type sensor) Ex ia IIC T4 Ga (without new ceramic type sensor)	ATEX II 1 G Ex da ia IIC T4 Ga (with new ceramic type sensor) II 1 G Ex ia IIC T4 Ga (without new ceramic type sensor)	Japan EX Ex da ia IIC T4 Ga (with new ceramic type sensor) Ex ia IIC T4 Ga (without new ceramic type sensor)
Certifications	CE marking, JIS T 8201:2010 (Oxygen deficiency indicator), JIS T 8205:2018 (Hydrogen sulfide indicator/alarm)		
External dimensions	Approx. 158 mm (W) × 85 mm (H) × 132 mm (D) (excluding projections)		

*1 Continuous operating time: Varies depending on the sensor installed.

*2 Operating ambient temperature/humidity range: May vary depending on the sensor installed. Refer to 'Sensor Specifications' on P. 6.

*3 IPx8: No water penetration when submerged at depth of 2 m for 1 hour.

*4 Including battery and battery unit.

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