

RAEGuard Energy Storage Gas Detector

Accurate & Reliable | Flexible & Convenient

RAEGUARD Energy Storage Gas Detector

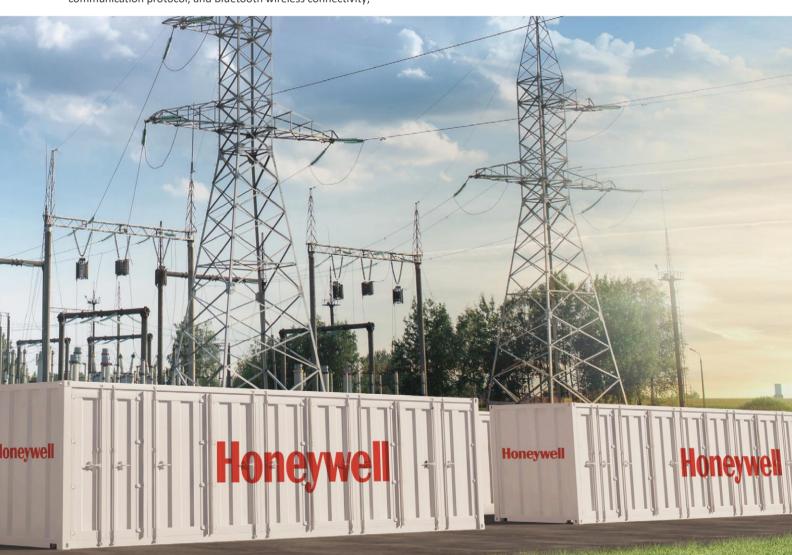
The RAEGuard Energy Storage Gas Detector (RG ESGD) is a fixed gas leak detector designed to meet the needs of gas leak detection in Battery Energy Storage Systems. Backed by over 50 years of expertise in gas detection, Honeywell delivers a flexible, reliable, fully certified, and user-friendly solution for energy storage customers.





Key Features

- Accurate and Reliable Detection with Professional Industrial-Grade Sensors
 - Developed using extensive sensor expertise by dedicated R&D teams and rigorously validated through multiple design and testing iterations;
- Designed for Harsh Energy Storage Environments
 Features an IP65-rated enclosure, wide operating temperature range (-30°C to 60°C), and altitude capability up to 4000 meters;
- Flexible Gas Detection Options and Comprehensive Output Configurations
 - Detects H₂ and CO with a standard RS-485 interface, Modbus RTU communication protocol, and Bluetooth wireless connectivity;
- Extended Service Life with Minimal Maintenance Includes a two-year warranty and a robust 10-year housing lifespan;
- Compact Master-Slave Design for Space-Saving and Easy Installation
 - Space-saving design allows for side or top mounting without removing the cover;
- Bluetooth and App Integration for Intelligent and Efficient Control
 - Provides real-time data monitoring and supports automated report generation.



Technical Specifications

Detector Parameters	Main Unit (H ₂)	Slave Unit (CO)	Slave Unit (H ₂)
Mechanical			
Dimensions	110mm x 110mm x 50 mm	Diameter: 60mm; Height: 50mm	Diameter: 60mm; Height: 45mm
Weight	350g	60g	60g
Housing Material	PC (Carbon Black)	PC (Carbon Black)	PC (Carbon Black)
Ingress Protection	IP65	IP65	IP65
Expected Lifespan	10 years (Sensor lifespan: 5 years)	10 years (Sensor lifespan: 5 years)	10 years (Sensor lifespan: 5 years)
Detectable Gases			
H ₂	$0 \sim 100\%$ LEL (LEL = 4% v/v) Alarm threshold: 10% LEL (adjustable)	NA	0 ~ 100% LEL (LEL = 4% v/v) Alarm threshold: 10% LEL (adjustable
со	NA	50 ~ 1000ppm (Default: 300ppm) Alarm threshold: 30ppm (adjustable)	NA
Power Supply			
Nominal DC Input Voltage	24VDC (12 ~ 27VDC)	NA	NA
Outputs			
Relay Output	2 x Relays 1*5A@24VDC, 1*1A@24VDC	NA	NA
Digital Output	Modbus RTU	NA	NA
Max. Power			
With Gas Sensor Version	2.3W	0.6W	1.5W
No Gas Sensor Version	1W	NA	NA
Min. Power			
	1.51W	0.1 W	0.92W
Wiring			
	M16 Pluggable Circular Connector		
Туре	Plug	M16 Pluggable Circular Connector Plug	M16 Pluggable Circular Connector Plug
1,00	Wire Gauge: 18 ~ 24 AWG	Wire Gauge: 18 ~ 24 AWG	Wire Gauge: 18 ~ 24 AWG
User Interface	5		
LED Indicators	Normal: Green flashing; Warning: Green and yellow alternately flashing; Fault: Yellow flashing; Suppression: Yellow solid; Alarm: Red flashing; Overrange Alarm: Red flashing rapidly; Bluetooth Pairing: Blue flashing; Bluetooth Connected: Blue solid; Initialization (Startup): Red, yellow, and green flashing in sequence, then yellow solid for approximately 1 minute;	Normal: Green flashing; Warning: Green and yellow alternately flashing; Fault: Yellow flashing; Suppression: Yellow solid; Alarm: Red flashing; Overrange Alarm: Red flashing rapidly; Initialization (Startup): Red, yellow, and green flashing in sequence, then yellow solid for approximately 1 minute;	Normal: Green flashing; Warning: Green and yellow alternately flashing; Fault: Yellow flashing; Suppression: Yellow solid; Alarm: Red flashing; Overrange Alarm: Red flashing rapidly; Initialization (Startup): Red, yellow, and green flashing in sequence, then yellow solid for approximately 1 minute;
Wireless Connectivity	Bluetooth Low Energy (BLE) 5.0 Remote configuration and maintenance within 10 meters (dependent on mobile device) via mobile APP	NA	NA
Environmental			
Operating Temperature	-30 ~ +60° C	-20 ~ +50° C	-30 ∼ +60° C
Storage Temperature	0 ~ 30° C	0 ~ 30° C	0 ~ 30° C
Operating Humidity	15 ~ 90% RH	15 ~ 90% RH	15 ~ 90% RH
Operating Air Pressure	70~100 kpa	70~100 kpa	70~100 kpa

Technical Specifications

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Detector Parameters	Main Unit (H₂)	Slave Unit (CO)	Slave Unit (H₂)		
Certifications					
Electrical Safety	EN/IEC61010-1	EN/IEC61010-1	EN/IEC61010-1		
Electrical Safety	UL/CSA61010-1	UL/CSA61010-1	UL/CSA61010-1		
EMC	EN 50270	EN 50270	EN 50270		
Wireless Certification	RED, FCC, SIG	NA	NA		
Others	*UL2075	*UL2075	*UL2075		
Standard Accessories					
Quick Start Guide	•	NA	NA		
Calibration Cap	•	•	•		
Mounting Screws	•	•	•		
Slave Unit L-Bracket	NA	•	•		
Optional Accessories					
4-Pin Male M16 Pluggable Circular	Angle connector	Angle connector	Angle connector		
Connector Plug	O Angle connector				
8-Pin Male M16 Pluggable Circular	Angle connector	NA	NA		
Connector Plug	O Aligie connector				
Mounting Adapter Plate	0	0	0		
External Junction Box	0	0	0		

^{*} Please consult with a Honeywell sales representative



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THE FUTURE IS WHAT WE MAKE IT

