

HONEYWELL BW™ RIGRAT

Transportable Multi-gas Area Monitor

Comply with safety procedures and protect workers with the most user-friendly area monitor of its kind.

Honeywell BW RigRat is so easy to use that workers can operate it with confidence, trusting it to alert them to gas threats in their proximity — indoors and out, in temperatures from -40°C to 60°C. Honeywell BW RigRat delivers:

- Up to 8 weeks of runtime on a single charge. Longer runtime than any area monitor in its class.
- Up to six slots for interchangeable gas sensors. Choice of electrochemical, PID, infrared, and catalytic bead sensors (measuring percent LEL and percent by volume).
- Integrated Noise sensor and Meteorological data sensors.
- Highly configurable with programmable input and output.
- Approval for explosive atmosphere. Certified for ATEX/IECEx Zone 0 and CSA C1D1.
- Flexible applications. Zone declassification, turnarounds, confined space, routine maintenance, fence line and more. Available with pump for remote sampling.
- One-button operation. Grab and go. No expertise required.
- Simple setup with a smartphone. Easy mobile app for alarm set points, calibration records and more.
- Added protection. Alerts workers to nearby gas leaks, whereas personal detectors cover only the breathing zone.



KEY FEATURES

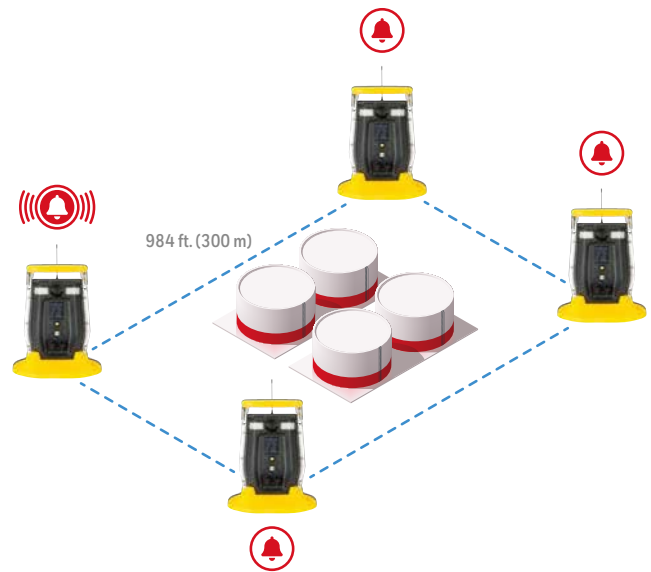
- **WIRELESS SAFETY PERIMETER** – Position several Honeywell BW RigRat monitors to form a wireless safety perimeter.
- **REMOTE MONITORING** – Use with Honeywell's remote monitoring software to see gas readings, location and other data from any device with an internet connection — for fast, informed decisions. Add an optional noise sensor or meteorological sensor.
- **HONEYWELL TOUCHPOINT™ PLUS COMPATIBLE** – Use with the Honeywell Touchpoint™ Plus controller for visibility on Honeywell BW RigRat monitors and workers' personal detectors.
- Line power for extended runtime in the field
- I/O ports providing additional input capabilities and local executive activation.
- Inert mode that prevents alarm in normal ambient air.
- Large, easy-to-read display
- Rugged, weatherproof design, with optional protective cage

HONEYWELL BW™ RIGRAT

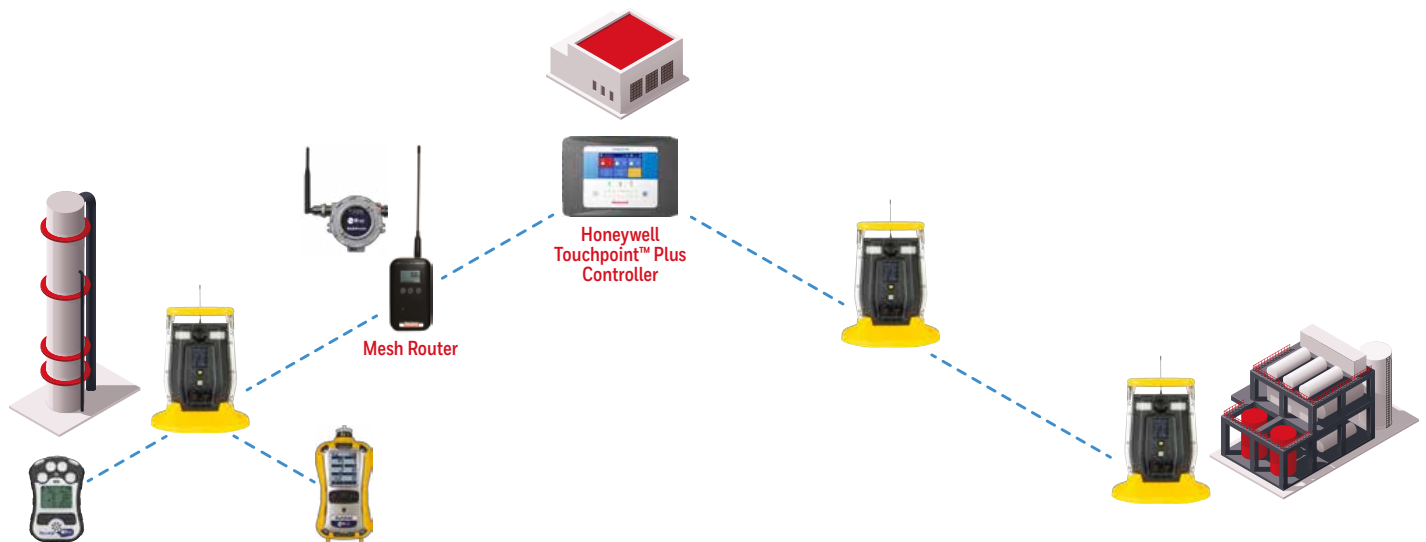
BW™ RIGRAT WIRELESS SYSTEM CONFIGURATIONS

CLOSED-LOOP

- Mesh 868 MHz, 900 MHz or 2.4 GHz system
- Network hops: one alarmed, all alarmed
- Work mode: Router
- One Honeywell BW™ Rigrat can connect up to 8 Honeywell BW™ Rigrats
- Up to 16 units in one system
- Wireless distance on ground level: 984 ft. / 300 m (868-900 MHz) or 492 ft. / 150 m (2.4 GHz)
- Parallel network configuration means no detector is selected as a coordinator and thereby any detector can be taken out of the system without reconfiguration of the wireless network



BW™ RIGRAT + PORTABLE GAS MONITORS + CONTROLLER



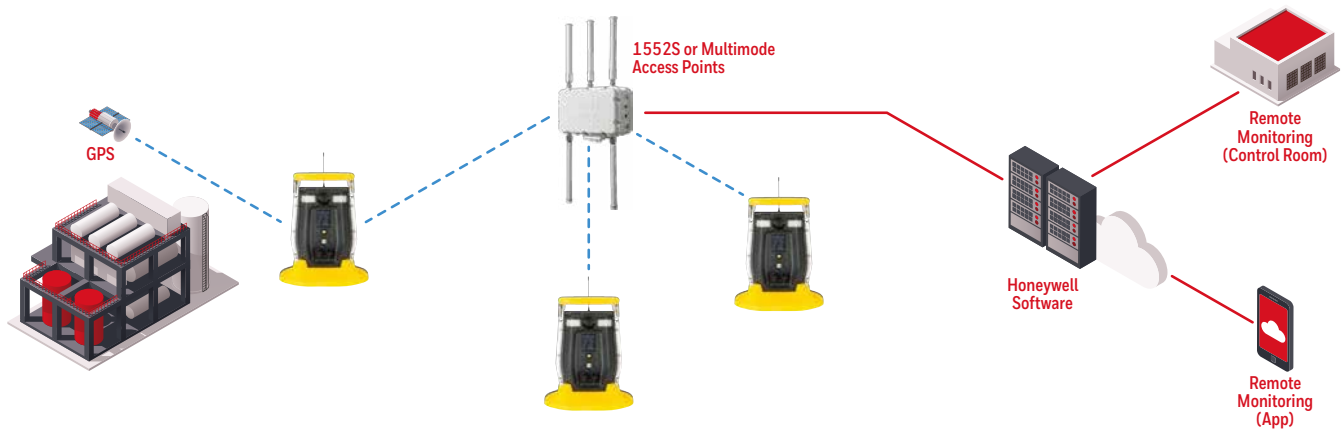
- Mesh 915/868 MHz
- Network hops: 3
- Work mode: RTR (Router)
- Capacity: 64 points (56 STD + 8 RTR)
- Supports RAEPoint
- Supports MultiRAE – MultiRAE lite and MicroRAE
- Connects to Honeywell software
- Ideal for turnaround and rig operations

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- The diagram illustrates a Honeywell mesh network topology. At the center is the **Honeywell Touchpoint™ Plus Controller**. It is connected via dashed blue lines to three **Mesh Router** units. One of these Mesh Routers is further connected to a **MeshGuard** device. Additionally, an **EchoView** device is connected to the central controller. The network is shown monitoring various industrial assets, including a storage tank, a pump, and a storage rack.

- Mesh 868/900 MHz
- Network hops: 10
- Work mode: RTR (Router)
- Capacity: 100STD+20RTR
- Wireless distance on ground level: > 984 ft. / 300 m LOS
- Location: GPS, 10 m @ 50%
- Compatible with Radiant Reader and Honeywell software

HONEYWELL BW™ RIGRAT

HONEYWELL BW™ RIGRAT + WI-FI



- Wireless distance on ground level: 164 ft. / 50 m LOS
- Location: GPS, 10 m
- Supports n/g Wi-Fi network
- Does not support authentication

HONEYWELL BW™ RIGRAT + BLUETOOTH LOW ENERGY (BLE)



- All Honeywell BW™ RigRat units are equipped with BLE
- Mobile app simplifies setup and configuration
- Less trained personnel can be dispatched to the unit to update configuration data
- Reduce training times to as low as 20 minutes
- All settings are configured via mobile app
- Email datalog file and calibration certificates via mobile app
- Easy calibration tracking

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SENSOR SPECIFICATIONS

SENSOR	RANGE	RESOLUTION	TEMPERATURE RANGE
COMBUSTIBLE GASES (IR)*	0-100% LEL / 0-100% vol.	1% LEL / 0.1% vol.	-40 to +140° F / -40 to +60° C
COMBUSTIBLE GASES (LEL)	0-100% LEL	1% LEL	-40 to +140° F / -40 to +60° C
CARBON DIOXIDE (CO ₂)	0-5% vol. / 100 ppm	0.01% vol. / 100 ppm	-4 to +131° F / -20 to +50° C
CARBON DIOXIDE (CO ₂) (EXT. RANGE)	0-100% vol.	0.1% vol.	-4 to +131° F / -20 to +50° C
VOLATILE ORGANIC COMPOUNDS (VOC)	0-2000 ppm	0.1 ppm	-4 to +131° F / -20 to +50° C
CARBON MONOXIDE (CO)	0-500 ppm	1 ppm	-40 to +140° F / -40 to +60° C
CARBON MONOXIDE (CO) (EXT. RANGE)	0-2000 ppm	10 ppm	-4 to +131° F / -20 to +50° C
CARBON MONOXIDE (CO) (H ₂ RESISTANT)	0-1000 ppm	5 ppm	-4 to +140° F / -20 to +60° C
HYDROGEN SUFLIDE (H ₂ S)	0-100 ppm	0.1 ppm	-40 to +140° F / -40 to +60° C
HYDROGEN SUFLIDE (H ₂ S) (EXT. RANGE)	0-1000 ppm	1 ppm	-4 to +131° F / -20 to +50° C
SULFUR DIOXIDE (SO ₂)	0-20 ppm	0.1 ppm	-40 to +140° F / -40 to +60° C
OXYGEN (O ₂)	0-30% vol.	0.1% vol.	-40 to +140° F / -40 to +60° C
NITRIC OXIDE (NO)	0-250 ppm	0.5 ppm	-4 to +131° F / -20 to +50° C
NITROGEN DIOXIDE (NO ₂)	0-20 ppm	0.1 ppm	-4 to +131° F / -20 to +50° C
HYDROGEN CYANIDE (HCN)	0-50 ppm	0.5 ppm	-4 to +131° F / -20 to +50° C
AMMONIA (NH ₃)	0-100 ppm	1 ppm	-4 to +131° F / -20 to +50° C
CHLORINE (CL ₂)	0-50 ppm	0.1 ppm	-4 to +131° F / -20 to +50° C

*Note: Temperature range for the Dynament Combustible IR sensor is -4 to +131° F / -20 to +50° C.

HONEYWELL BW™ RIGRAT

SPECIFICATIONS

Specifications subject to change without notice

Model Number	BWRR100P/BWRR100D	Temperature	-4 to +140° F / -20 to +60° C for pumped models; -40 to +140° F / -40 to +60° C for diffusion models
Size	40.0 x 29.0 x 47.0 cm / 15.8 x 11.4 x 18.5 in.	Humidity	5 - 95% RH (non-condensing)
Weight	17.6 lb / 8 kg	Safety Certifications (Pending)	- cCSAus Class I Division 1; Group A, B, C, D; T4; - IEC EX/ATEX - I M1 Ex ia I Ma - II 1G Ex ia da IIC T4 Ga - For LELIR/CO2 sensor installed: - I M1 Ex ia I Ma - II 2G Ex ia da db IIC T4 Gb 1G Ex ia da IIC T4 Ga
Gas Sensor Slots	Up to 6	Wireless Approvals (Pending)	FCC Part 15, IC, RE-D
Gas Sampling Method	Pumped or diffusion	RoHS (Pending)	RoHS Complaint, Directive (EU) 2015/863
Battery	Rechargeable Li-ion battery (3.7V / 26.4 Ah)	Noise Sensor	70-110 dBA range; (respond: 100 Hz to 8 kHz), 1 dB resolution; A-weighted 15 second equivalent level; updated every 5 seconds
Charging Time	Less than 18 hours when instrument is powered off	External Ports	
Running Time	8 weeks for low-power model; other models vary by configuration	Safe Area Charge Port (AC Chg Safe Area)	Battery charger input 6 VDC 3 A typical; connect to AC/DC adaptor
Keypads	One-button operation and programming	Field Charge (Is Chg Hazardous)	Intrinsically safe line power supply input to extend instrument runtime (low-power model only)
Display	3.5" 240 x 320 TFT color LCD with white LED backlight	RAEMET Port (Serial)	Port to RAEMet wind sensor (optional)
Alarm	Red/yellow/green LED alarm; buzzer alarm 108 dBA @ 1 m; on-screen indication of alarm conditions	Analog/Switch Input Port	(4-20 MA IN) 4-20 mA signal input, X1 channel/switch on/off signal input, X1 channel (optional)
Datalogging	Complete gas sensors and instrument information for at least 4 months at one minute intervals	On/Off Switch Output (Switch)	Max 20 V / 120 mA, SPDT Normal Open, X3 channels for external ports (optional). Refer to User Guide for complete details.
Wireless	ISM license free band: - Bluetooth Low Energy Module (BT 4.2 / 5.0), 2.4 GHz, in default; - Mesh Module: IEEE 802.15.4 868 MHz / 915MHz / 2.4 GHz (optional); OR - Wi-Fi Module: 802.11 b/g/n 2.4 GHz (optional)		
Radio Module & Range	- Bluetooth Low Energy: RMBLEC, up to 16.4 ft. / 5 m; - Mesh: RM900A or RM2400, up to 984 ft. / 300 m; - Wi-Fi: RMWIFIC, up to 164 ft. / 50 m;		
Outdoor Location	GPS receiver module: GPS L1 frequency (1575.42 MHz) (optional)		
IP Rating	IP65 for pumped models; IP67 for diffusion models		



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