

HONEYWELL BW™ RIGRAT

Transportable Multi-gas Area Monitor

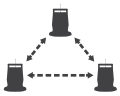
Comply with safety procedures and protect workers with the most user-friendly area monitor of its kind.

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 Metrological 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.



FEATURES AND BENEFITS



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.

OTHER HONEYWELL BW RIGRAT FEATURES:

- Line power for extended runtime in the field
- Inert mode that prevents alarm in normal ambient air.
- I/O ports providing additional input capabilities and local executive activation.
- Large, easy-to-read display
- Rugged, weatherproof design, with optional protective cage

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HONEYWELL BW™ RIGRAT TECHNICAL SPECIFICATIONS

INSTRUMENT SPECIFICATIONS (TYPICAL)

MODEL NUMBER	BWRR100P/BWRR100D
SIZE	15.8 x 11.4 x 18.5 in. / 40.0 x 29.0 x 47.0 cm
WEIGHT	17.6 lb / 8 kg
GAS SENSOR SLOTS	Up to 6
GAS SAMPLING METHOD	Pumped or diffusion
BATTERY	Rechargeable Li-ion battery (3.7V / 26.4 Ah)
CHARGING TIME	Less than 18 hours when instrument is powered off
RUNNING TIME	8 weeks for low-power model; other models vary by configuration
KEYPADS	One-button operation and programing
DISPLAY	3.5" 240 x 320 TFT color LCD with white LED backlight
ALARM	Red/yellow/green LED alarm; buzzer alarm 108 dBA @ 1 m; on-screen indication of alarm conditions
DATALOGGING	Complete gas sensors and instrument information for at least 4 months at one minute intervals
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
TEMPERATURE	-4 to +140° F / -20 to +60° C for pumped models; -40 to +140° F / -40 to +60° C for diffusion models
HUMIDITY	5 - 95% RH (non-condensing)
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/CO ₂ sensor installed: I M1 Ex ia I Ma II 2G Ex ia da db IIC T4 Gb 1G Ex ia da IIC T4 Ga
WIRELESS APPROVALS (PENDING)	FCC Part 15, IC, RE-D
ROHS (PENDING)	RoHS Complaint, Directive (EU) 2015/863
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
EXTERNAL PORTS	
SAFE AREA CHARGE PORT (AC CHG SAFE AREA)	Battery charger input 6 VDC 3 A typical; connect to AC/DC adaptor
FIELD CHARGE (IS CHG HAZARDOUS)	Intrinsically safe line power supply input to extend instrument runtime (low-power model only)
RAEMET PORT (SERIAL)	Port to RAEMet wind sensor (optional)
ANALOG/SWITCH INPUT PORT (4-20 MA IN)	4-20 mA signal input, X1 channel/switch on/off signal input, X1 channel (optional)
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.

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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 Dynamant Combustible IR sensor is -4 to +131° F / -20 to +50° C.

For More Information

www.honeywellanalytics.com

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Note: Due to ongoing research and product improvement, specifications are subject to change without notice.

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