HONEYWELL BW™ RIGRAT

Transportable Multi-gas Area Monitor

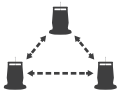
Comply with safety procedures and protect workers with the most user-friendly area monitor of its kind.

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 to +140°F (-40 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.**
- **Enhanced configurations 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
- 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

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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, 984 ft. / 300 m (868-900 MHz) or RM2400, 492 ft. / 150 m (2.4 GHz); Wi-Fi: RMWIFIC, up to 164 ft. / 50 m;
OUTDOOR LOCATION	GPS receiver module: GPS L1 frequency (1575.42 MHz) (optional); Only with IEEE 802.15.4 868 MHz / 915MHz modem and WIFI
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)	cETLus 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 SENOR	60-125 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_2S)	0-100 ppm	0.1 ppm	-40 to +140° F / -40 to +60° C
HYDROGEN SUFLIDE (H_2S) (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).*

THE FUTURE IS WHAT WE MAKE IT

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

For More Information
safety.honeywell.com

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