

HONEYWELL BW™ RIGRAT

Transportable Multi-gas Area Monitor

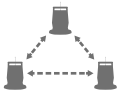
Comply with safety procedures and protect workers with the most user-friendly area monitor of its kind.

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°F to 140°F (-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**
- **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
- 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 in x 11.4 in x 18.5 in (40.0 cm x 29.0 cm 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 5 m (16.4 ft); Mesh: RM900A or RM2400, up to 300 m (984 ft); Wi-Fi: RMWIFIC, up to 164 ft. / 50 m (164 ft);
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°F to 140°F (-20°C to 60°C) for pumped models; -40°F to 140°F (-40°C to 60°C) for diffusion models
HUMIDITY	5% - 95% RH (non-condensing)
SAFETY CERTIFICATIONS	IEC Ex No: IECEx NEP 20.0003X Ex ia IIC/IIB T4; Ga Ex da ia IIC/IIB T4; Ga Ex db ia IIC/IIB T4 Gb ATEX No: SEV 20 ATEX 0389 X II 1G Ex ia IIC/IIB T4 G; II 1G Ex da ia IIC/IIB T4 Ga; II 2G Ex db ia IIC/IIB T4 Gb North American: cETLus Class I, Division 1, Groups A, B, C and D, T4; Class I, Division 1, Groups C and D, T4
WIRELESS APPROVALS	Performance Requirements of Detectors for Flammable Gases UL 60079-29-1:2019 Ed.2 CAN/CSA C22.2 NO. 60079-29-1:17 Ed.2 FCC Part15; IC; RE-D (2014/53/EU) (Contact your Honeywell representative for wireless approval availability, country-specific)
ROHS	RoHS Directive (EU) 2015/863
NOISE SENSOR	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
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.

HONEYWELL BW™ RIGRAT TECHNICAL SPECIFICATIONS

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

*Note: Temperature range for the Dynamant Combustible IR sensor is -4°F to 131°F (-20°C to 50°C).

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For More Information
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