HONEYVELL BWTM 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.



- 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



HONEYWELL TOUCHPOINT™ PLUS COMPATIBLE

Use with the Honeywell Touchpoint[™] Plus controller for visibility on Honeywell BW[™] RigRat monitors and workers' personal detectors.

• Rugged, weatherproof design, with optional protective cage



HONEYWELL BWTM 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	Max 20 V / 120 mA, SPDT Normal Open, X3 channels for external ports (optional). Refer to User Guide for complete details			

HONEYWELL BWTM 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 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_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..

DS_Honeywell BW RigRat_DS052419-00_US-EN | 03/20 © 2020 Honeywell International Inc. Honeywell