

# HONEYWELL BW™ FLEX 4/5

## Multi-Gas Detector

With a choice of 14 different sensor types, the Honeywell BW™ Flex 4/5 protects you from multiple gas hazards, in a small, rugged, and easy to use device. BW Flex 4/5 keeps specialists operating in confined spaces, or general workers on a plant, safe from gas hazards while making safety compliance for the business easy.

### WORK THE WAY YOU WANT TO

The IntelliFlash™ and ultra-bright alarm LEDs provide users an instant overview of the detectors status. Red for stop, amber as a warning, and green you're good to go, gives that simple view inexperienced users need. The display can also be configured to show all the gases at the same time or one at a time. Either way the operator gets all they need to know at a glance.

### MORE GASES FOR MORE APPLICATIONS

Select up to 4 sensors from 14 different gas types. With common gases covered and a growing range of "exotic" sensors too, the BW Flex can be used to protect workers from up to five gases in even more industries.

### READY FOR THE CONNECTED FUTURE

Pairing the Honeywell BW™ Flex 4/5 with your smart mobile device via Bluetooth™ allows remote measurement, field reporting of incidents, or even full instrument configuration and calibration. What's more everything is recorded for download when needed and users can easily synchronize with Safety Suite fleet management software.



For the detection of the most common gas hazards including: Flammable gas (LEL), oxygen (O<sub>2</sub>), carbon monoxide (CO), hydrogen sulphide (H<sub>2</sub>S), carbon dioxide (CO<sub>2</sub>), sulphur dioxide (SO<sub>2</sub>), chlorine (Cl<sub>2</sub>), nitric oxide (NO), nitrogen dioxide (NO<sub>2</sub>), and hydrogen cyanide (HCN)

## FEATURES AND BENEFITS



### RELIABLE

Small, lightweight, rugged, and weatherproof, the BW Flex can be used in potentially explosive atmospheres. Indoor, outdoor, onshore or offshore, we have you covered globally.



### STATUS AT A GLANCE

The SafetyTick™ and IntelliFlash™ status indicators enable quick visual compliance checks of instrument status in the field. The intuitive green, amber, and red color coding keep it simple.



### ADVANCED CONNECTIVITY

Using a smart mobile device or PC operators can fully configure their device using Safety Suite solutions on iOS®, Android™, or Windows™ platforms. Safety Communicator allows full remote situational awareness from the control room when needed.



### RESPONSIVE

Offering instantaneous alarms, with time weighted average exposure levels (STEL/TWA), users are protected all round, from flammable, oxygen, and toxic gases in the work place.



### EASY TO MAINTAIN

The modular design makes service and maintenance easy. Compatibility with IntelliDoX automated test and calibration system, makes the routine fast! The system ensures up to date records are always available.



### EASY TO USE

The single pushbutton operation, intuitive user interface, and simple green/amber/red alarm system simplifies training and enables users to be up and running quickly.

**Honeywell**

# Honeywell BW™ Flex 4/5 Series Technical Specifications

SENSOR SPECIFICATIONS															
Gas Type	LEL-IR	NDIR-CO2	LEL-CB-F	LEL-CB-UF	O2	H2S	COSH Dual Toxic		CO	CO-H	SO2	NO	NO2	HCN	CL2
							H2S	CO							
Identifier	W5	B1	W6	W7	X1	H1	HM		M1	M3	S3	N3	D3	Z3	C3
Spare Sensor	SR-W5-1S	SR-B1-1S	SR-W6-1S	SR-W7-1S	SR-X1-1S	SR-H1-1S	SR-HM-1S		SR-M1-1S	SR-M3-1S	SR-S3-1S	SR-N3-1S	SR-D3-1S	SR-Z3-1S	SR-C3-1S
Type	NDIR C1-C6 Hydrocarbons	NDIR CO2	Cat. Bead Filtered	Cat. Bead Unfiltered	Pb free Electrochem.	Electrochemical	Electrochemical		Electrochemical	Electrochemical	Electrochemical	Electrochemical	Electrochemical	Electrochemical	Electrochemical
Interface	Digital	Digital	Digital	Digital	Bias O2 Pump	Inflow	Digital		Inflow	Inflow	Inflow	Bias	Outflow	Inflow	Outflow
Operating Temperature	-20°C/60°C -4°F/140°F	-20°C/60°C -4°F/140°F	-20°C/60°C -4°F/140°F	-20°C/60°C -4°F/140°F	-40°C/60°C -40°F/140°F	-40°C/60°C -40°F/140°F	-20°C/50°C -4°F/122°F		-40°C/60°C -40°F/140°F	-20°C/50°C -4°F/122°F	-20°C/50°C -4°F/122°F	-20°C/50°C -4°F/122°F	-20°C/50°C -4°F/122°F	-10°C/50°C 14°F/122°F	-20°C/50°C -4°F/122°F
Operating Humidity (non-condensing)	0-99% rH	0-99% rH	0-95% rH	0-95% rH	5-95% rH	0-95% rH	15-90% rH		0-95% rH	15-90% rH	15-95% rH	15-90% rH	15-90% rH	15-90% rH	15-90% rH
Recommended Operating Range	100% LEL	5% VOL (50000 ppm)	100% LEL	100% LEL	25% VOL	200 ppm	100 ppm	1000 ppm	1000 ppm	1000 ppm	20 ppm	100 ppm	20 ppm	50 ppm	20 ppm
Maximum Over Range	100% LEL	5% VOL (50000 ppm)	100% LEL	100% LEL	30% VOL	500 ppm	400 ppm	2000 ppm	2000 ppm	2000 ppm	150 ppm	400 ppm	60 ppm	250 ppm	60 ppm
Resolution	1% LEL	0.01%VOL (100 ppm)	1% LEL	1% LEL	0.1% VOL	0.1 ppm	0.1 ppm	1 ppm	1 ppm	1 ppm	0.1 ppm	0.1 ppm	0.1 ppm	<0.3 ppm	0.1 ppm
Default Units of Measure	% LEL	% VOL	% LEL	% LEL	% VOL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Configurable Alarm Range	0 (disable) to 100% LEL	0 (disable) to 5% VOL	0 (disable) to 100% LEL	0 (disable) to 100% LEL	0 (disable) to 30% VOL	0 (disable) to 500 ppm	0 (disable) to 400 ppm	0 (disable) to 2000 ppm	0 (disable) to 2000 ppm	0 (disable) to 2000 ppm	0 (disable) to 150 ppm	0 (disable) to 400 ppm	0 (disable) to 60 ppm	0 (disable) to 250 ppm	0 (disable) to 60 ppm
Default Low Alarm	10% LEL	0.5% VOL (5000 ppm)	10% LEL	10% LEL	19.5% VOL	10 ppm	10 ppm	35 ppm	35 ppm	35 ppm	2 ppm	25 ppm	2 ppm	4.7 ppm	0.5 ppm
Default High Alarm	20% LEL	3.0% VOL (30,000 ppm)	20% LEL	20% LEL	23.5% VOL	15 ppm	15 ppm	200 ppm	200 ppm	200 ppm	5 ppm	25 ppm	5 ppm	10 ppm	1 ppm
Default STEL	n/a	3.0% VOL (30,000 ppm)	n/a	n/a	n/a	15 ppm	15 ppm	50 ppm	50 ppm	50 ppm	1 ppm	25 ppm	5 ppm	10 ppm	1 ppm
Default TWA	n/a	0.5% VOL (5000 ppm)	n/a	n/a	n/a	10 ppm	10 ppm	35 ppm	35 ppm	35 ppm	0.5ppm	25 ppm	2 ppm	4.7 ppm	0.5 ppm
Default Span Gas	50% LEL CH <sub>4</sub> (2.2/2.5% VOL)	0.5% VOL (5000 ppm)	50% LEL CH <sub>4</sub> (2.2/2.5% VOL)	50% LEL CH <sub>4</sub> (2.2/2.5% VOL)	18% VOL	25 ppm	25 ppm	100 ppm	100 ppm	100 ppm	20 ppm	50 ppm	10 ppm	15ppm	10 ppm
Maximum Calibration Interval	180 days	180 days	180 days	180 days	180 days	180 days	180 days		180 days	180 days	180 days	180 days	180 days	90 days	180 days
Expected Operating Life	3 to 5+ years	3 to 5+ years	3 to 5+ years	3 to 5+ years	3 to 5+ years	3 to 5+ years	2+ years		3 to 5+ years	2+ years	3 to 5+ years	2+ years	2+ years	1 to 2 years	1 to 2 years

Some combinations are not recommended/allowed due to cross sensitivity and possible interference. Contact Honeywell for advice.

# Honeywell BW™ Flex 4/5 Series Technical Specifications

The Honeywell BW™ Flex 4 Series multi-gas detector protects users from up to five gas hazards in a rugged, compact, and lightweight device, suitable for every day use. With 14 different sensors available, many configurations are possible for a wide range of industries.

Technical Specifications	
Size	108.2 mm × 61.5 mm × 43.2 mm (4.29 in × 2.44 in × 1.7 in) with Alligator Clip 108.2 mm × 61.5 mm × 37.8 mm (4.29 in × 2.44 in × 1.49 in) with Klick Fast Stud
Weight	With Catalytic LEL: 189 g (6.7 oz) with Alligator Clip, 173 g (6.1 oz) with Klick Fast Stud With IR LEL: 186 g (6.6 oz) with Alligator Clip, 170 g (6.0 oz) with Klick Fast Stud
Certified Temperature	-40°C to 60°C (-40°F to 140°F) and -20°C to 60°C (-4°F to 140°F) with Catalytic LEL sensor
Working Humidity	5% to 95% rH (non condensing and sensor dependent)
Ingress Protection	IP66, IP68
Alarms and Type	Visual, vibrating, audible (95 dB); Low, High, TWA, STEL, Negative Drift, Over Limit, Multi-alarm, Low Battery
Self-Test	Perform diagnostic of sensor, circuitry on activation; Reflex™ test automatically performs analog sensor diagnostic every 10 minutes
Typical Battery Life*	40 days @ 8 hours of use per day with NDIR CH <sub>4</sub> sensor, up to 15 hour with Catalytic LEL
Connected Worker	Bluetooth® Low Energy (BLE) – Ability to connect to the Honeywell Safety Communicator App, Device Configurator App and Safety Suite Device Configurator Software
User Options <i>(Changed using Safety Suite and/or Device Configurator App)</i>	<ul style="list-style-type: none"><li>• Change High, Low, TWA, and STEL alarm set points</li><li>• Latching alarms, peak hold function</li><li>• Set calibration and/or bump test reminders, apply enforcement policies</li><li>• Assign worker and location assignments</li><li>• Always on</li></ul>
Certifications and Approvals	ATEX, IEC Ex, CSA, FTZU, INMETRO, GOSST, CCCF, CPA, KRS, MED, DNV, SABS, FCCID, IC, UKCA, CE Suitable for use in potentially explosive atmospheres found in industrial, marine, and mining applications. Contact Honeywell for the latest list of global approvals

\*depends on alarm duration.



Caution: The infrared LEL sensor used in Honeywell BW™ Flex cannot detect hydrogen and acetylene. For applications involving these combustible gases, please specify the catalytic type LEL sensor.

## WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgment or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items that Honeywell, in its sole discretion, finds defective. **The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While Honeywell may provide application assistance personally, through our literature and the Honeywell web site, it is buyer's sole responsibility to determine the suitability of the product in the application.

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## Honeywell Process Measurement and Control

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