

# 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<br>-4°F/140°F               | -20°C/60°C<br>-4°F/140°F | -20°C/60°C<br>-4°F/140°F               | -20°C/60°C<br>-4°F/140°F               | -40°C/60°C<br>-40°F/140°F | -40°C/60°C<br>-40°F/140°F | -20°C/50°C<br>-4°F/122°F |                         | -40°C/60°C<br>-40°F/140°F | -20°C/50°C<br>-4°F/122°F | -20°C/50°C<br>-4°F/122°F | -20°C/50°C<br>-4°F/122°F | -20°C/50°C<br>-4°F/122°F | -10°C/50°C<br>14°F/122°F | -20°C/50°C<br>-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<br>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<br>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);<br>Low, High, TWA, STEL, Negative Drift, Over Limit, Multi-alarm, Low Battery                                                                                                                                                                                      |
| Self-Test                                                                   | Perform diagnostic of sensor, circuitry on activation;<br>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<br>(Changed using Safety Suite and/or Device Configurator App) | <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<br>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

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## Honeywell Process Measurement and Control

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Le laboratoire des Pays-Bas est accrédité RvA selon la norme EN-ISO/IEC 17025. Cette accréditation est valable pour différentes grandeurs, telles que spécifiées dans le champ d'application associé au numéro d'accréditation K105. Les certificats de calibrage RvA sont acceptés à l'international et équivalents à ceux de BELAC.



## Service Mobile

Outre les laboratoires d'étalonnage fixes de Zaventem et de Capelle aan den IJssel, nous disposons également d'un laboratoire itinérant appelé "Service mobile". Nos services peuvent venir vers vous, en offrant une qualité équivalente.

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- Formations et séminaires
- Vidéos de démonstration et d'instruction
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Comptoir de service



Entretien, réparation et calibrage



Formations et séminaires



Service Mobile

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