

BW™ ULTRA

User-Friendly Portable Five-Gas Detection in Confined Spaces



Designed specifically for sampling and monitoring confined spaces, before and after entry, Honeywell BW™ Ultra offers enhanced sensor technology, visibility on gas readings, comfort, and connectivity. This makes it more reliable and provides an intuitive user experience, helping to prevent a potential gas safety incident.

Do you need to sample or monitor a confined space for dangerous gases?

The Honeywell BW™ Ultra pumped detector is made specifically to help you to:

- Clear a confined space for entry and continually monitor it while workers are inside
- Regularly sample a confined space as part of your permit requirements
- Protect your workers and operations

ULTRA VISIBILITY ON GAS READINGS

When you're sampling gases in a confined space, you need to constantly watch the readings on your gas detector, and the Honeywell BW™ Ultra makes them easy to see. The detector has an 8.1 cm (3.2 inch) screen and very high resolution, so you can quickly determine the level of each gas.

GOES WHERE YOU DO

Designed for durability, the Honeywell BW™ Ultra stands up to harsh conditions. With a very high rating of IP66/68, the Honeywell BW™ Ultra is protected not only from dust but also from water ingress (high pressure spray or sub-

mersion up to 1.2 m or 3.9 ft. deep). So if you drop the Honeywell BW™ Ultra in a vat or take it into a dust-prone environment, you can feel completely confident that it will continue to operate effectively.

Confined space sentries are your safety watchmen. Do they have the right gas detector for the job? The Honeywell BW™ Ultra is made for monitoring confined spaces.



KEY FEATURES

- Larger dot matrix LCD screen for easy viewing
- Enhanced situational awareness for the hole watch
- The new 1-Series sensor for enhanced reliability
- Honeywell TouchConnect™ Technology for quicker instrument management
- Remote monitoring for an additional layer of protection

FIVE SENSORS FOR THE HAZARDS IN YOUR ENVIRONMENT

The Honeywell BW™ Ultra simultaneously detects the four gases you're required to monitor in confined spaces:

- Oxygen (O₂)
- Hydrogen sulfide (H₂S)
- Carbon monoxide (CO)
- Combustibles at the lower explosive limit (LEL: % LEL or % vol.)

Plus there's a fifth sensor for the gas of your choice, ranging from sulfur dioxide (SO₂) to chlorine (Cl₂) to volatile organic compounds (VOCs). So whether you have operations in oil and gas, pulp and paper, water treatment, marine, chemical plants, or other industries, you can add a fifth level of protection for your confined space entries.

REAL-TIME SITUATIONAL AWARENESS IN CONFINED SPACE MONITORING – SO YOU CAN MAKE FAST DECISIONS TO PROTECT WORKERS INSIDE.

Each year, industrial companies spend millions of dollars related to safety incidents in confined spaces, often because they focus on reactive response versus proactive threat monitoring.

The Honeywell BW™ Ultra helps you to prevent safety incidents by providing clear, easy-to-read gas data to the attendant standing outside a confined space while workers are inside. With gas readings that are easy to view and interpret, the attendant can correct small problems before they become a crisis –providing workers with peace of mind that someone is watching their back. This means better safety and higher productivity.



Designed for your hands, with or without gloves..

REMOTE, REAL-TIME MONITORING FOR HIGH-RISK JOBS

Honeywell BW™ Ultra is compatible with the Honeywell Safety Communicator mobile app, which means that vital gas readings on the detector are no longer limited to the confined space attendant who's using it.

Monitoring a high-risk job in a confined space? The detector's gas readings and location can be instantly sent via Bluetooth to Honeywell's real-time monitoring software, viewable from a control room or other remote locations. So, if there's an emergency, you have an extra layer of monitoring for coordinated response.

HOLE WATCH MODE – FOR EASY-TO- UNDERSTAND GAS CONCENTRATIONS

When you're monitoring a confined space that has workers inside, it's important to track changes in the gas concentration. But what does a concentration of 5 ppm really mean?

When you put the Honeywell BW™ Ultra into Hole Watch Mode, you can see the concentration of each gas – plus a graph next to every reading that shows how close the gas is to the point of alarm. With this patented Honeywell feature, you can see how fast each gas level is climbing, so you can correct small problems before they cause worker injury, evacuation, or complete shutdown.

NEXT GENERATION SMART 1-SERIES SENSOR – FOR FAST RESPONSE, RELIABLE PERFORMANCE, AND LONG LIFE.

The Honeywell BW™ Ultra breaks the mold of other portable gas detectors with the 1-Series sensor, which is compact, square, and one-third the height of the industry standard. That slim profile makes for a lighter, slimmer detector and also ensures quicker sensor response time, because the gas diffuses into it more quickly.

These LEL, O₂, H₂S and CO sensors respond within seconds, alerting you to dangerous gas levels so you can quickly take action.



REPEATABLE PERFORMANCE WITHOUT NUISANCE ALARMS – EVEN IN EXTREME CONDITIONS

Despite the small size of the 1-Series sensor, it delivers consistently accurate readings, standing up to temperatures from -40°C to 60°C – plus transient pressure, humidity, and other environmental extremes. So no matter how harsh your confined space, the Honeywell BW™ Ultra will continue detecting dangerous gas.

THE HIGHEST STANDARDS OF SENSOR QUALITY AND RELIABILITY

Honeywell developed the 1-Series sensor in partnership with City Technology, a global manufacturer of gas sensors for more than 40 years. This sensor follows in the footsteps of the City 40XV oxygen sensor for GasAlert detectors and the City 40xLL long-life oxygen sensor for the GasAlertMicroClip X3. So you can trust that the 1-Series sensor has the most exacting standards of quality and reliability.

UP TO FIVE YEARS OF SENSOR LIFE

With some gas detectors from other brands, sensors wear out very quickly and soon (or immediately) need replacement, which can add cost and downtime. But with the Honeywell BW™ Ultra, the 1-Series sensors last up to five years, depending on their gas exposure. With that long sensor life, backed by a three-year warranty on the Honeywell BW™ Ultra, you can have confidence in your detector performance while reducing your cost of ownership.

Minimize your cost of ownership.
Maximize your confidence.



HONEYWELL TOUCHCONNECT™ TECHNOLOGY FOR TIME SAVING INSTRUMENT MANAGEMENT.

Honeywell's TouchConnect™ Technology brings Bluetooth technology to gas detection users. Simply activate your Bluetooth TouchConnect™ device and it will allow you to change a number of BW Ultra devices that are within range. It will allow you to change BW Ultra configurations or send units in to a quick Bump or Calibration mode.

Use this technology to streamline maintenance of the Honeywell BW™ Ultra and reduce your cost of ownership and down time:

HASSLE-FREE BUMP AND CALIBRATION – EVEN FOR LARGE FLEETS

Need to bump or calibrate your Honeywell BW™ Ultra but don't have a docking station?

Simply activate the TouchConnect™ device, and it will automatically find devices that are in range and will go into the appropriate mode.

QUICK AND EASY CONFIGURATION – EVEN FOR LARGE FLEETS

Need to change your alarm set points for a certain gas concentration? Just activate the TouchConnect™ device and the set points, configuration settings will be automatically changed.

This is especially valuable if you have a large fleet of detectors around the world and don't have docking stations or software. Instead of manually updating each detector, just send the TouchConnect™ devices to each location. The simple Bluetooth device takes care of the rest.



FIVE-GAS FLEXIBILITY FOR MANY KINDS OF CONFINED SPACES.

If you face gas hazards in your industry, the five-gas Honeywell BW™ Ultra can be configured to detect them. In addition to the standard four gases that you're required to monitor in a confined space – O₂, H₂S, CO, and LEL – you can choose a fifth sensor depending on your operation.

Some common examples:

GAS	INDUSTRY
SO ₂	Oil & gas, pulp & paper
NH ₃	Chemical plants, pool systems, pulp & paper mills, refrigeration, agriculture, wastewater treatment
CL ₂	Pool systems, pulp & paper, water/wastewater treatment
VOCs	Multiple industries that involve solvents, paints and other volatile organic compounds for equipment maintenance
CO ₂	Wineries & breweries
NO ₂	Construction & welding
HCN	Perishable food shipping

SMART SOLUTION FOR INERT ATMOSPHERES

The patented Intelligent Inert mode on the Honeywell BW Ultra allows users to safely and simply measure low levels of Oxygen (Inert Atmospheres), by automatically adjusting O₂ alarm levels from descending alarms (needed for monitoring in normal environments) to ascending alarms (needed for monitoring in inert environments).

A VERSATILE DETECTOR THAT CAN GO BEYOND CONFINED SPACES

The Honeywell BW™ Ultra is designed for confined-space sampling and monitoring, but it can also double as a day-to-day detector.

Do you have an employee working around chlorine gas at a pumping station? Is one of your staff members using volatile organic compounds for a cleaning task?

Just remove the sampling hose from the Honeywell BW™ Ultra and make it

part of the employee's personal protective equipment – thus reducing your investment in additional detectors.

The Honeywell BW™ Ultra is another way Honeywell protects your workers – and your enterprise.

Honeywell Industrial Safety offers a total safety solution for hazardous environments, protecting the lives of workers wherever they're at risk.

In addition, Honeywell helps your company turn safety into a strategic advantage – by reducing costs, increasing operational uptime, and driving productivity.

As the world leader in industrial safety, Honeywell offers a comprehensive portfolio of head-to-toe personal protective equipment; fixed and portable gas detectors, as well as software, sensors, and other connected technologies for real-time safety monitoring, analytics, and safety administration.

GASES	STANDARD MEASURING RANGE	RESOLUTION
OXYGEN (O ₂)	0-25% vol.	0.1% vol.
COMBUSTIBLE GASES (LEL)	0-100% LEL	1% LEL
COMBUSTIBLE GASES (IR)*	0-5.00% vol.	0.01% vol.
HYDROGEN SULFIDE (H ₂ S)	0-100 ppm	1 ppm / 0.1 ppm
CARBON MONOXIDE (CO)	0-2,000 ppm	1 ppm
CARBON MONOXIDE (LOW H ₂) (CO-H)	0-1,000 ppm	1 ppm
SULFUR DIOXIDE (SO ₂)	0-100 ppm	0.1 ppm
HYDROGEN (H ₂)	0-2,000 ppm	5 ppm
CARBON DIOXIDE (CO ₂)	0-50,000 ppm	100 ppm
AMMONIA (NH ₃)	0-100 ppm	1 ppm
VOLATILE ORGANIC COMPOUNDS (VOC) **	0-1,000 ppm	1 ppm
CHLORINE (CL ₂)	0-20 ppm	0.1 ppm
NITROGEN DIOXIDE (NO ₂)	0-50 ppm	0.1 ppm
HYDROGEN CYANIDE (HCN)	0-100 ppm	0.1 ppm
NITROGEN MONOXIDE (NO)	0-200 ppm	1 ppm

* Caution—the LEL IR combustible gas sensor option used in Honeywell BW™ Ultra cannot detect certain combustible gases including hydrogen and acetylene. The application should be reviewed to ensure the Honeywell BW™ Ultra can provide adequate detection. For more information, please contact Gastech. www.gastech.com

** Please contact Honeywell Analytics for availability.

BW ULTRA

INTELLIDOX DOCKING SYSTEM

IntelliDoX combines smart-docking modules with

our instrument management system to provide automated testing and record keeping



SPECIFICATIONS Specifications subject to change without notice

SIZE	5.8 x 3.3 x 1.6 in. / 14.8 x 8.5 x 4.0 cm
WEIGHT	14.5 oz. / 411 g (with clip)
OPERATING TEMPERATURE	-4 to +131° F / -20 to +50° C
HUMIDITY	5 - 95% RH (non-condensing) continuous
INGRESS PROTECTION	IP66/68
ALARMS AND TYPE	Visual, vibrating, audible (95 dB); Low, High, TWA, STEL, OL (over limit)
SELF-TEST	Activated detectors automatically perform one internal diagnostic test every 24 hours (sensors, battery, and circuitry).
TYPICAL BATTERY LIFE	18 hours (14 hours with PID or IR sensor) @ -4° F / -20° C
PUMP DRAW	Sample from up to 75 ft. / 22.9 m
CONNECTED WORKER	<ul style="list-style-type: none"> • Bluetooth™ Low Energy (BLE) – Ability to connect to Honeywell’s Safety Communicator App • Honeywell TouchConnect™ – Easy ability to enter Bump or Calibration mode or change Set-Points
EVENT LOGGING	30 alarm events and 10 bump events
DATA LOGGING	45 days based on 8 hour shifts every 15 seconds logging

USER OPTIONS

- Adjust STEL period (5-15 minutes in 1 minute intervals)
- Calibration span levels
- Calibration interval
- Bump test interval
- Select combustible gases measurement: 0-100% LEL (Lower Explosive Limit) or Methane gas 0-5.0% v/v
- LEL and PID correction factors
- Calibration due date (1 to 365 days, or set to zero for off)
- Individual sensor enable/disable
- Latching alarms
- Stealth mode
- Languages: English, French, German, Portuguese, Spanish, Simplified Chinese and Russian

CERTIFICATIONS AND APPROVALS

Class I, Div 1, Group A, B, C, D
 Class I, Zone 0, Group IIC ATEX : II 1G
 Ex ia IIC T4 Ga IECEx : Ex ia IIC T4 Ga
 X : European Conformity
 For additional certifications, please review the manual or consult Honeywell Analytics.

WARRANTY

Instrument: 3 years
 Sensors: 3 years (2 years NH3, 1 year PID and Cl2) Battery: 2 years



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