



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	<b>IECEX UL 18.0061X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 8	Issue 7 (2024-07-16)
Date of Issue:	2024-08-27		Issue 6 (2022-11-29)
Applicant:	<b>Honeywell Co., Ltd.</b> 5F SangAm IT Tower, 434, Worldcup Buk-ro, Mapo-gu, Seoul 03922 <b>Korea, Republic of</b>		Issue 5 (2022-03-30)
Equipment:	<b>Multi-Gas Detector, BW ULTRA</b>		Issue 4 (2020-08-28)
Optional accessory:			Issue 3 (2020-05-28)
Type of Protection:	<b>Intrinsic Safety "ia", Flameproof "da", "db"</b>		Issue 2 (2019-08-30)
Marking:	Ex ia IIC T4 Ga Ex da ia IIC T4 Ga Ex db ia IIC T4 Gb Ex da ia I Ma Ex db ia I Ma Ex ia I Ma  -40°C ≤ Tamb ≤ 50°C -20°C ≤ Tamb ≤ 50°C  <b>Please see Annex for additional information.</b>		Issue 1 (2018-11-09)
			Issue 0 (2018-08-31)

Approved for issue on behalf of the IECEx  
Certification Body:

**Katy A. Holdredge**

Position:

**Senior Staff Engineer**

Signature:  
(for printed version)

Date:  
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**UL Solutions (US)**  
333 Pfingsten Road  
Northbrook IL 60062-2096  
**United States of America**





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Manufacturer: **Honeywell Co., Ltd.**  
5F SangAm IT Tower, 434, Worldcup Buk-ro, Mapo-gu,  
Seoul 03922  
**Korea, Republic of**

Manufacturing locations: **Honeywell Analytics Limited**  
Hatchpond House  
4 Stinsford Road  
Nuffield Estate  
Poole, Dorset  
BH17 ORZ  
**United Kingdom**

**Honeywell Optoelectronica S. de R.L. de C.V.**  
Av. Parque Industrial Juárez # 3328  
Parque Industrial Juárez, Cd. Juárez  
Chihuahua 32630  
**Mexico**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

[IEC 60079-26:2014](#) Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga  
Edition:3.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

### Test Reports:

[US/UL/ExTR18.0069/00](#)  
[US/UL/ExTR18.0069/03](#)  
[US/UL/ExTR18.0069/06](#)

[US/UL/ExTR18.0069/01](#)  
[US/UL/ExTR18.0069/04](#)  
[US/UL/ExTR18.0069/07](#)

[US/UL/ExTR18.0069/02](#)  
[US/UL/ExTR18.0069/05](#)  
[US/UL/ExTR18.0069/08](#)

### Quality Assessment Reports:

[GB/SIR/QAR11.0027/10](#)

[GB/SIR/QAR17.0009/06](#)

[NL/DEK/QAR18.0005/05](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Model BW ULTRA is a portable, hand-held gas detector intended to detect combustible, toxic gases and oxygen deficiency. The device provides visual and audible alarms when predetermined levels are reached. Power is provided by rechargeable lithium-ion battery and contains a separate lithium manganese dioxide (coin-cell) battery for real-time clock monitoring. The device contains two contacts for battery recharging purposes in a non-hazardous location.

**Please see Annex for additional information.**

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- The Model BW ULTRA is provided with anti-static coating over the LCD window to minimize risk of ignition due to electrostatic discharge. Periodic inspection of this coating is required to ensure no degradation, delamination, abrasions or other deformities to this surface. Care must be taken to avoid exposure to excessive heat, harsh chemicals or solvents, sharp edges and abrasive surfaces. Clean only with a damp cloth.



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Issue 1: Minor revisions to user manual.

Issue 2: Minor change to the spring finger, updated firmware, various nonprotective component changes and added IEC 60079-26, 3rd edition and updated IEC 60079-0 to 7th edition.

Issue 3: The design was evaluated for alternate Zener diodes and the addition of Group I.

Issue 4: Revised oxygen and toxic sensors, and revised battery enclosure.

Issue 5: The BW ULTRA drawings were updated due to a minor board change.

Issue 6: Expanded CO sensor range, added toxic sensor and alternate pump motor.

Issue 7: Updated internal diodes on Main PCB and label drawings for company name change.

Issue 8: Added new manufacturing location Honeywell Optoelectronica S. de R.L. de C.V. and removed manufacturing location Ademco De Juarez S. De R.L. de C.V.

## **Annex:**

[Annex to IECEx UL 18.0061X Issue 8.pdf](#)



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## TYPE DESIGNATION

NOMENCLATURE for the BW ULTRA:

BW Ultra Series	HU	X1	W1	H1	M1	Q1	Y	X
	I	II	III	IV	V	VI	VII	VIII

- I. Model
  - a. HU - BW Ultra
- II. First Sensor – Electro Chemical Oxygen Sensor
  - a. X1 – Oxygen Sensor
  - b. 00 – Dummy Sensor
- III. Second Sensor – Catalytic Bead Flammable Sensor
  - a. W1 – 1 LEL 75 sensor
  - b. W2 – 1 LEL 75C sensor
  - c. W3 – 1 LEL 75M sensor
  - d. 00 – Dummy Sensor
- IV. Third Sensor – Electro Chemical Sensor
  - a. H1 – H2S Sensor
  - b. S3 – SO2 Sensor
  - c. 00 – Dummy Sensor
- V. Fourth Sensor – Electro Chemical Sensor
  - a. M1 – CO Sensor
  - b. S3 – SO2 Sensor
  - c. 00 – Dummy Sensor
- VI. Fifth Sensor
  - a. Q1 – PID Sensor
  - b. W4 – LEL IR Sensor
  - c. B1 – CO2 IR Sensor
  - d. S1 – SO2 Sensor
  - e. A1 – NH3 Sensor
  - f. R1 – H2 Sensor
  - g. C1 – Cl2 Sensor
  - h. D1 – NO2 Sensor
  - i. Z1 – HCN Sensor
  - j. N1 – NO Sensor
  - k. M2 – CO-H Sensor
  - l. 00 – Dummy Sensor
- VII. Enclosure Color
  - a. Y – Yellow
  - b. B – Black
- VIII. Country Code
  - a. X – Where X can be any alphanumeric character



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## PARAMETERS RELATING TO THE SAFETY

Powered by the following battery pack:

Part No. 50122982-130 manufactured by Honeywell Co. Ltd.

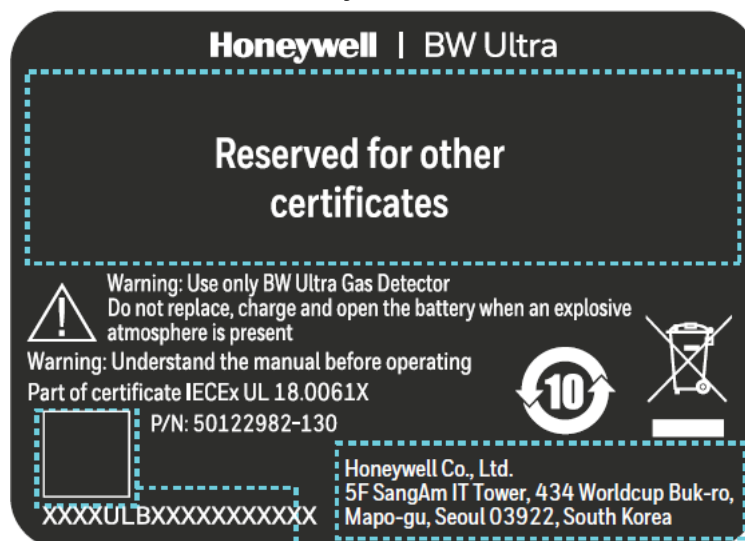
Um = 6.3V at the charging contacts.

Ambient temperature range	Temperature class	Marking String	Nomenclature Suffix
-40 °C to +50 °C	T4	Ex ia IIC T4 Ga	When the following is not included: W1, W2, W3, W4 or B1
-40 °C to +50 °C	T4	Ex da ia IIC T4 Ga	When the following is included W1, W2 or W3 and the following is not included: W4 or B1
-20 °C to +50 °C	T4	Ex db ia IIC T4 Ga	When the following is included: W4 or B1
-20 °C to +50 °C	-	Ex db ia I Ma	
-20 °C to +50 °C	-	Ex ia I Ma	Not included: W1, W2, W3, W4 or B1
-20 °C to +50 °C	-	Ex da ia I Ma	Included: W1, W2 or W3 Not Included: W4 or B1

## MARKING

Marking has to be readable and indelible; it has to include the following indications:

### IECEX Battery Pack Label





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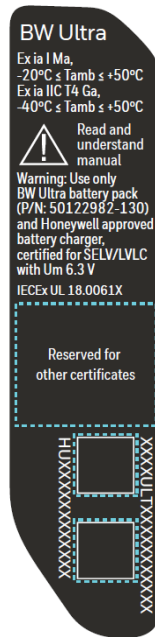
IECEX UL 18.0061X

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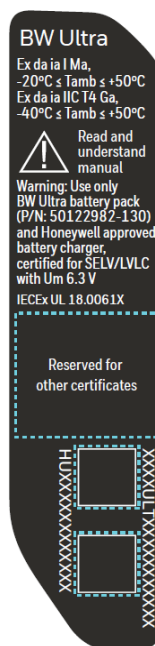
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## IECEX Device Labels

When suffixes W1, W2, W3, W4 or B1 are not included:



When suffixes W1, W2 or W3 are included and suffixes W4 or B1 are not included:





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**When suffixes W4 or B1 are included:**

