



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

Certificate No.: **IECEX UL 18.0061X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 3 [Issue 2 \(2019-08-30\)](#)
Date of Issue: 2020-05-28 [Issue 1 \(2018-11-09\)](#)
[Issue 0 \(2018-08-31\)](#)
Applicant: **Honeywell Analytics Asia Pacific Co. Ltd.**
7F SangAm IT Tower
434 World Cup Buk-ro
Mapo-gu, Seoul, 03922
Korea, Republic of
Equipment: **Multi-Gas Detector, BW ULTRA**
Optional accessory:
Type of Protection: **Intrinsic Safety "ia", Flameproof "da", "db"**
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
Please see Annex for additional information.

Approved for issue on behalf of the IECEx
Certification Body:

Katy A. Holdredge

Position:

Senior Staff Engineer

Signature:
(for printed version)

Date:

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 or use of this QR Code.



Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: **Honeywell Analytics Asia Pacific Co. Ltd.**
7F SangAm IT Tower
434 World Cup Buk-ro
Mapo-gu, Seoul, 03922
Korea, Republic of

Additional manufacturing locations:

Ademco De Juarez S A De C.V. Parque Industrial Intermex, Valle del Cedro 1681 Ciudad Juarez, Chihuahua, Mexico 32574 Mexico	Honeywell Analytics Limited Hatch Pond House 4 Stinsford Road Nuffield Estate Poole Dorset BH17 0RZ United Kingdom
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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 60079-1:2014-06 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 60079-26:2014-10 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/ExTR18.0069/01](#) [US/UL/ExTR18.0069/02](#)
[US/UL/ExTR18.0069/03](#)

Quality Assessment Reports:

[GB/SIR/QAR11.0027/06](#) [NL/DEK/QAR18.0005/01](#) [US/UL/QAR07.0003/11](#)



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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.

Annex:

[Annex to IECEx UL 18.0061X Issue 3.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. 00 – Dummy Sensor
- V. Fourth Sensor – Electro Chemical Sensor
 - a. M1 –CO Sensor
 - b. 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 Analytics Asia Pacific 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

Honeywell | BW Ultra

Reserved for other certificates

Warning: Use only BW Ultra Gas Detector
Do not replace, charge and open the battery when an explosive atmosphere is present

Warning: Understand the manual before operating

Part of certificate IECEx UL 18.0061X

P/N: 50122982-130

Honeywell Analytics Asia Pacific Co., Ltd.
7F SangAm IT Tower, 434 Worldcup Buk-ro,
Mapo-gu, Seoul 03922, South Korea

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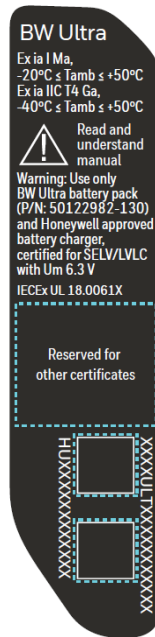
Certificate No.: IECEX UL 18.0061X

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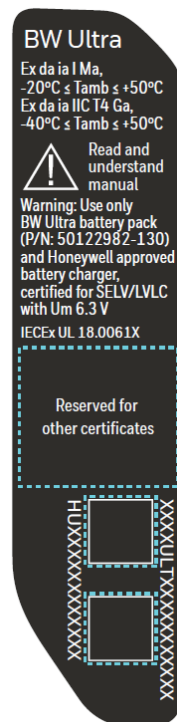
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IECEX Device Labels

When any of the following suffixes are not included: W1, W2, W3, W4 or B1



When any of the following suffixes are included: W1, W2 or W3 and the following suffixes are not included: W4 or B1



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When any of the following suffixes are included: W4 or B1



LIST OF CERTIFIED COMPONENTS

The following additional previous editions of Standards noted under the "Standards" section of this Certificate were applied to integral Components as itemized below. There are no significant safety related changes between these previous editions and the editions noted under the "Standards" section.

Product	Certificate Number	Standards
Dynamnt Ltd. Gas Sensors Type MSH2ia ***	IECEX FTZU 15.0002U	IEC 60079-0 Edition 7
City Technology Limited, Miniature Combustible Gas Sensor – 1 LEL 75	IECEX ULD 16.0016U	IEC 60079-0 Edition 7