



1 **EU TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 20ATEX2012X** Issue: **2**

4 Equipment: **Portable Gas Detector BW Icon, BW Icon+, BW Flex-i, BW Flex4, BW Flex5**

5 Applicant: **Honeywell Analytics Limited**

6 Address: Hatch Pond House
4 Stinsford Road
Nuffield Estate
Poole
Dorset BH17 0RZ
UK

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:


EN IEC 60079-0:2018	EN 60079-11:2012	EN 60079-28:2015
EN 60079-1:2014	EN 60079-26:2015	

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.


11 This EU type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

BW Icon, BW Icon+

 I M1
Ex ia I Ma
With NDIR sensor:
Ex ia op is I Ma
Ta = -40°C to +60°C
Refer to the description for additional marking

BW Icon, BW Icon+

 II 1G
Ex ia IIC T4 Ga
With NDIR sensor:
Ex ia op is IIC T4 Ga
Ta = -40°C to +60°C

Project Number 80062017

Signed: J A May

Title: Director of Operations

CSA Group Netherlands B.V.
Utrechtseweg 310, Building B42,
6812AR, Netherlands



SCHEDULE

EU TYPE-EXAMINATION CERTIFICATE

Sira 20ATEX2012X
Issue 2

13 DESCRIPTION OF EQUIPMENT

BW Flex-i, BW Flex4, BW Flex5:



I M1
Ex ia I Ma



II 1G
Ex ia IIC T4 Ga

With NDIR sensor:



I M1
Ex ia op is I Ma



II 1G
Ex ia op is IIC T4 Ga

With LEL sensor:



I M1
Ex da ia I Ma



II 1G
Ex da ia IIC T4 Ga

With NDIR & LEL sensor:



I M1
Ex da ia op is I Ma
Ta = -40°C to +60°C for all models



II 1G
Ex da ia op is IIC T4 Ga

Honeywell BW Icon, Icon+, Flex-i, Flex4 and Flex5 are 5 models of multi-gas diffusion monitor which continuously detect toxic gas and combustible gas concentration with electrochemical sensors, NDIR sensors or catalytic combustion sensors. They are supplied with rechargeable li-polymer battery cell. One push button to operate the gas monitor. Audible, visual and vibration alarm are included. BW Icon is a disposable device which have 2 years life time.

BW Icon and Icon+ use 8 indication Icon instead of LCD display.

BW Flex-i, Flex4 and Flex5 have LCD display and the difference among them is the sensor types.

Variation 1 - This variation introduced the following changes:

- i. Addition of new model's BW Flex-i, BW Flex4, BW Flex5 is recognized. The Marking and Product name and Product description were updated.
- ii. BW ICON Main Board BOM were updated to include alternative components Q2 & Q3.
- iii. Introduction of EN 60079-26:2015 and EN 60079-1:2014, following the appropriate assessment to demonstrate compliance with the latest technical knowledge; EN 60079-26:2015 and EN 60079-1:2014 were added to the list of standards.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	09 July 2020	R80044968A	The release of prime certificate.
1	09 November 2020	R80058003A	The introduction of Variation 1.
2	11 November 2020	R80062017A	Transfer of certificate Sira 20ATEX2012X from Sira Certification Service to CSA Group Netherlands B.V.

14.3 Certificate number Sira 20ATEX2008X Issue 1

CSA Group Netherlands B.V.
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SCHEDULE

EU TYPE-EXAMINATION CERTIFICATE

Sira 20ATEX2012X

Issue 2

- 15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)
- 15.1 Portable Gas Detector BW Icon, BW Icon+, BW Flex-i, BW Flex4 and BW Flex5 shall only be charged in safe area using a charger approved as SELV or Class 2 equipment against IEC 60950 or an equivalent IEC standard, such as DC Voltage Stabilized Supply, model ADS-6AE-06 06030E manufactured by Shenzhen Honor Electronic Co., Ltd.
- The maximum voltage from the charger U_m shall not exceed 6.0 Vdc. The ambient temperature during charging shall be in the range 0°C to 45°C.
- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)**
- The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

Certificate Annexe



Certificate Number: Sira 20ATEX2012X
Equipment: Portable Gas Detector BW Icon, BW Icon+,
BW Flex-i, BW Flex4, BW Flex5
Applicant: Honeywell Analytics Limited

Issue 0

Drawing	Sheets	Rev	Date (Sira stamp)	Title
M05-4003-LBL-IEC-UK	1 of 1	2	07 Jul 20	BW Icon label HA
904-E300-030.41-UK	1 to 3	B	07 Jul 20	Controlled Part of Manual

Issue 1

Drawing	Sheets	Rev	Date (Sira stamp)	Title
M05-4010-LBL-IEC-UK	1 of 1	3	05 Nov 20	BW Flex label HA
904-E300-030.41-UK	1 to 5	C	05 Nov 20	BW Icon and BW Flex Controlled Part of Manual

Issue 2 – No new drawings were introduced.

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