

1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 19ATEX2004** Issue: **2**

4 Equipment: **Portable Single Gas Detector BW Solo**

5 Applicant: **Honeywell Analytics Ltd**

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 60079-0:2012/A11

EN 60079-11:2012

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 identified 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:



I M1
Ex-ia I Ma
Ta = -40°C to +60°C



II 1G
Ex-ia IIC T4 Ga
Ta = -40°C to +60°C

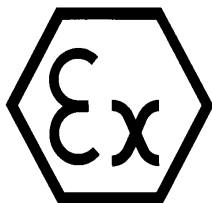
Project Number 80052958

Signed: J A May

Title: Director of Operations

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CSA Group Netherlands B.V.
Utrechtseweg 310,
6812 AR, Arnhem,
Netherlands



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

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Issue 2

13 DESCRIPTION OF EQUIPMENT

The subject instrument is a Portable Single Gas Detector BW Solo for continuously display of gas concentrations. The physical dimensions are 70mm*67mm*25 (30mm with 4R sensor) mm. Its weight is around 100g. It is handheld and battery powered, front and back area housed in a transparent plastic material (PC), partially covered with stainless steel and soft thermoplastic rubber material (TPE). The front, which is partially covered with stainless steel, has LCD display and pushbuttons for navigation and programming. The back of the enclosure is equipped with a metallic belt clip.

It is supplied by a Li-SOCl₂ battery. The battery is provided with infallible safety circuits including infallible resistors.

This instrument normally equips with electrochemical Clydesdale Whittle sensor / 4R sensor, an optional wireless modem, audible and visual alarm indicators. The visual alarm comprises a Red LED bar visual from the top and bottom. The push button of facilitates the access to measured levels or alarms, and the mode button makes it possible to change pre-set limits and setting, additionally, the imbalanced motor produces a vibration alert when in alarm mode.

The model number refers to following table. All models have same schematic design. However, the external dimension of Clydesdale 4R sensor is bigger than Clydesdale whittle sensor, so the PCB layout is a little bit different between Clydesdale-whittle and Clydesdale-4R. The rest of model number have no effects on the circuit design of BWSa-bbc-d.

a:	Product version	Empty 1 2	Standard version Wireless version Low cost version
bb:	Gas type	b bb	Detect gas Detect extended gas
c:	Sensor type	L Empty	Clydesdale Whittle sensor Clydesdale 4R sensor
d:	Colour	Y B	Yellow Black

Variation 1 - This variation introduced the following changes:

- i. Equipment name – from “handheld Toxic Gas Monitor” to “Portable Single Gas Detector BW Solo”.
- ii. The introduction of EN 60079-26 was recognised.
- iii. Addition of a ER14335 Thionyl Chloride Li-ion battery manufactured by TITUS and XLP-055F manufactured by XENO Energy.
- iv. The revision state of the previously issued label drawing, G05-4003-LBL-UK (Sira stamp date 09 Jan 19) was amended to correct a typographical error, no change in the drawing.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.



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14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	16 January 2019	R70210070A	The release of prime certificate.
1	15 October 2019	4098	Transfer of certificate Sira 19ATEX2004 from Sira Certification Service to CSA Group Netherlands B.V..
2	06 October 2020	R80052959A	The introduction of Variation 1.

14.3 Certificate number Sira 18ATEX2243 Issue 3

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

None

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 19ATEX2004
Equipment: Portable Single Gas Detector BW Solo
Applicant: Honeywell Analytics Ltd

Issue 0

Drawing	Sheets	Rev	Date (Sira stamp)	Title
G05-4003-LBL-UK	1 of 1	1	09 Jan 19	Label, SN Clydesdale

Issue 1 No new drawings were introduced

Issue 2

Drawing	Sheets	Rev	Date (Sira stamp)	Title
G05-4003-LBL-UK	1 of 1	2	09 Jan 19	Label, SN Clydesdale

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