



# 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 CSA 23.0033X</b>	Page 1 of 3	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 0	
Date of Issue:	2023-12-07		
Applicant:	<b>Hanwei Electronics Group Corporation</b> No.169,Xuesong Road,National Hi-Tech Zone,Zhengzhou 450001, China		
Equipment:	<b>Portable Gas Detector/BZ100</b>		
Optional accessory:			
Type of Protection:	<b>Intrinsically Safe</b>		
Marking:	<b>Ex ia IIC T4 Ga</b> <b>Ta = -20°C to 50°C</b>		

Approved for issue on behalf of the IECEx  
Certification Body:

**Dave Magee**

Position:

**Senior Director of Operations, Toronto**

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:

**CSA Group**  
**178 Rexdale Boulevard**  
**Toronto, Ontario M9W 1R3**  
**Canada**





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Date of issue: 2023-12-07

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Manufacturer: **Hanwei Electronics Group Corporation**  
No.169,Xuesong Road,National Hi-Tech Zone,Zhengzhou 450001,  
**China**

Manufacturing  
locations: **Hanwei Electronics Group  
Corporation**  
No.169,Xuesong Road,National Hi-  
Tech Zone,Zhengzhou 450001,  
**China**

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

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 Report:

[CA/CSA/EXTR23.0037/00](#)

Quality Assessment Report:

[NL/CNEX/QAR20.0001/02](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

BZ100 is a portable toxic gas detector which is powered by a single primary lithium cell (3.6V). The physical dimensions are 61.5mm\*52.8mm\*27mm (alligator clip dimensions are not included) and its weight is about 85g. It is housed in a non-metallic enclosure (PC), partially covered with soft thermoplastic rubber material (TPE). The gas detector supports one EC sensor. The EC sensor is for hydrogen sulfide (H<sub>2</sub>S), carbon monoxide (CO) or oxygen (O<sub>2</sub>) monitoring of ambient air. The front has an LCD display and one power-on button for users to operate functions and change settings. The back of the enclosure is equipped with a metallic alligator clip. There are three status LEDs, audible alarm and vibration alarm. When the gas concentration reaches the high, low, TWA or STEL alarm present value, it will trigger audio, visual and vibration alarms.

Internally, the electronics consist of a main printed circuit board and a sensor printed circuit board.

The detector has been tested to comply with IP67/IP68(1m, 1h) in accordance with the EN/IEC 60529.

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

1. It is not allowed to disassemble, change the battery, adjust or repair the gas detector.
2. Before use, ensure that the ESD film on the perspective window panel is not damaged or peeling or the product is enclosed by a leather cover.
3. The product shall not be used or be exposed to air with an oxygen concentration of more than 21%.