



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.:	IECEX CSA 05.0015	Issue No: 13	<u>Certificate history:</u>
Status:	<b>Current</b>	Page 1 of 4	Issue No. 13 (2016-09-30)
Date of Issue:	<b>2016-09-30</b>		Issue No. 12 (2015-12-21)
Applicant:	<b>BW Technologies by Honeywell</b> 2840 - 2nd Avenue S.E. Calgary, Alberta, T2A 7X9 <b>Canada</b>		Issue No. 11 (2015-06-10)
Equipment:	<b>Portable Gas Detectors Gas Alert Micro Clip XT, XL, and X3</b>		Issue No. 10 (2014-08-01)
<i>Optional accessory:</i>			Issue No. 9 (2014-02-28)
Type of Protection:	<b>Ex da ia</b>		Issue No. 8 (2013-09-24)
Marking:			Issue No. 7 (2012-06-13)
	Gas Alert Micro Clip XT: Ex da ia IIC T4 Ga; Ta = -20 to +50°C		Issue No. 6 (2010-11-25)
	Gas Alert Micro Clip XL: Ex da ia IIC T4 Ga; Ta = -20 to +50°C		Issue No. 5 (2010-01-12)
	Gas Alert Micro Clip X3: Ex da ia IIC T4 Ga; Ta = -20 to +50°C		Issue No. 4 (2008-11-24)
			Issue No. 3 (2008-04-25)

Approved for issue on behalf of the IECEx  
Certification Body:

Dorin Stochitoiu

Position:

Technical Advisor

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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





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Manufacturer: **BW Technologies by Honeywell**  
2840 - 2nd Avenue S.E.  
Calgary, Alberta  
T2A 7X9  
Canada

Additional Manufacturing location(s):

**System Sensor de Mexico**

Ave. Valle Del Cedro 1681  
Parque Industrial Intermex  
Ciudad Juarez, Chihuahua 32574  
Mexico

**Honeywell Analytics Limited**

Hatch Pond House  
4 Stinsford Road  
Nuffield Estate  
Poole  
Dorset BH17 0RZ  
United Kingdom

**RAE Systems (Shanghai) Inc**

990 East HuiWang Road  
JiaDing District  
Shanghai 201815  
Peoples Republic of China  
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 electrical apparatus 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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

*This Certificate **does not** indicate compliance with electrical 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*

IECEX ATR:	File Reference:
CA/CSA/ExTR06.0009/11	157918-70024686
CA/CSA/ExTR06.0009/12	157918-70041765
CA/CSA/ExTR06.0009/13	157918-70078148



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The gas detectors consist of a non-metallic case, LCD display, single circuit board and push buttons with one or more internal gas sensing elements. The units are powered by a non-user replaceable lithium polymer battery.

GasAlertMicroClip XT - Model MC2-XWHM-a-bb-cc. Ambient range -20 °C to +50 °C with non-user replaceable battery NARADA NL503759.

GasAlertMicroClip XL - Model MCXL-XWHM-a-bb. Ambient range -20 °C to +50 °C with non-user replaceable battery NARADA NLP883759LT20.

GasAlertMicroClip X3 - Model MCX3-XWHM-a-bb. Ambient range -20 °C to +50 °C with non-user replaceable battery NARADA NLP883759LT20.

X = Indicates the Oxygen Sensor (0, X)

W = Indicates the Combustible Sensor (0, W)

H = Indicates the H<sub>2</sub>S Sensor (0, H, H1-H5)

M = Indicates the Carbon Monoxide Sensor (0, M, M1-M5)

a = Custom parameter, not affecting I.S.

bb = Custom parameters, not affecting I.S.

cc = Custom parameters, not affecting I.S.

**CONDITIONS OF CERTIFICATION: NO**



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

**Issue 2** – Revisions to Model Code: Minor circuit layout changes; Covered under updated ExTR, CA/CSA/05/TR157918-1773164(1730357), Registered as CA/CSA/ExTR06.009/00; Original QAR; ULQAR04.04NK10378 (Issued 2004-04-07) Updated QAR: ULQAR05.05NK21013 (Issued 2005-08-25) (US/UL/QAR06.0006/01) CA.CSA/ExTR06.0009/02; Addition of Varta PLF 503759 D battery as alternate.

**Issue 3** – Update to include alternate manufacturing location.

**Issue 4** – Addition of a new battery BYD Type SL503759.

**Issue 5** – Update to include new vibrator motor. Updated to IEC 60079-0 Ed 4 and IEC 60079-11 Ed 5.

**Issue 6** – Update to include new battery (Narada NL503759). Update to add an alternate O2 sensor which results in a new Model (Gas Alert Micro Clip XT) due to circuitry changes.

**Issue 7** - Update to the latest versions of IEC 60079-0 (2011) and IEC 60079-11 (2011). Related: CA/CSA/ExTR06.0009/09; US/UL/QAR06.0006/05; US/UL/QAR07.0003/02.

**Issue 8** - Update to cover revised firmware; US/UL/QAR06.0006/07; US/UL/QAR07.0003/04.

**Issue 9** - Removing model GasAlertMicroClip MC-XWHM-a-bb-cc; Lithium Polymer batteries Varta PLF 503759, D, C ,BYD SL 503759; Updating label and manual; Revising some drawing versions to reflect some component changes US/UL/QAR06.0006/07; US/UL/QAR07.0003/04.

**Issue 10** - Adding model GasAlertMicroClip XL; MCXL-XWHM-a-bb a Multi-gas detectors for monitoring up to four gases i.e. Oxygen, Combustibles, Carbon Monoxide and Hydrogen sulphide.

**Issue 11** - Crystal component change to GasAlertMicroClip (GAMC) XT and GAMC XL; Update to add an alternate O2 sensor which results in a new model (GAMC X3) due to circuitry changes. US/UL/QAR06.0006/07; US/UL/QAR07.0003/04.

**Issue 12** - Crystal component change to GAMC X3; add new dataflash chip to all 3 units; update XT label; add Chinese version of XT label; fix a drawing revision; add new manufacturing location RAE Systems, Shanghai (NO/DNV/QAR06.0004/05); add Poole location for XT/XL (GB/SIR/QAR11.0027/03). Existing: Calgary (US/UL/QAR06.0006/08); Juarez (US/UL/QAR07.0003/05).

**Issue 13** - Include 'Ex da' marking on labels for all three instruments, change the upper ambient rating on the GasAlertMicroClip XT, and include firmware changes for all three instruments. Ref. Latest QARs: (NO/DNV/QAR06.0004/05), (GB/SIR/QAR11.0027/04), (US/UL/QAR06.0006/09), (US/UL/QAR07.0003/07).