



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

Certificate No.:	IECEx CSA 05.0009X	issue No.:2	History:
Status:	Current		
Date of Issue:	2007-01-05	Page 1 of 4	
Applicant:	BW Technologies Ltd. 2840 - 2nd Avenue S.E. Calgary, Alberta T2A 7X9 Canada		
Electrical Apparatus: Optional accessory:	GasAlert Micro Portable Multi-Gas Detector (refer to Schedule)		
Type of Protection:	Ex ia		
Marking:	IECEx CSA 05.0009X Ex ia IIC T4 (GAMIC-BAT-03 & GAMIC-BAT2-03) Ex ia IIC 163 °C (alkaline) Ex ia IIC 212 °C (NiMH) -20 °C ≤ Ta ≤ 50 °C		
Approved for issue on behalf of the IECEx Certification Body:	Davey Li		
Position:	Technical Manager		
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 International
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada
and
1707 - 94th Street
Edmonton, AB T6N 1E6
Canada





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

Manufacturing location(s):

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 manufacture'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:

IEC 60079-0 : 2000 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 3.1
IEC 60079-11 : 1999 Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety "I"
Edition: 4

*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/05/TR157918-1721442(1637948)	157918-1721442
CA/CSA/ExTR07.0002/00	157918-1867114



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The GasAlert Micro is an intrinsically safe, portable multi-gas detector for monitoring up to four gases simultaneously and continuously: oxygen [deficiency/enrichment], combustibles, carbon monoxide, and hydrogen sulphide.

The GasAlert Micro is powered by two AA Batteries, either of the alkaline or NiMh rechargeable type or by a battery pack as shown below

Alkaline: Duracell MN1500, Energizer E91

NiMh: Quest Platinum HGAAC1800G, Quest HG1600AACS, Energizer NH15, Maha Powerex 1700mAh MH-AA170, Maha Powerex 1800mAh MH-AA180, Yuasa Delta 1300mAh DHA1400AA, Yuasa Delta 1500mAh DHA1600AAC

Battery Pack: P/N GAMIC-BAT-03 and GAMIC- BAT2-03

Two versions of the product use Digital Multimedia Cards to provide datalogging capability.

The Model Code Breakdown is as follows:

GAMIC-w-x-y-z

w indicates the installed gas detector modules

w Code	Gases Detected	w Code	Gases Detected
4	H2S, CO, LEL, O2	2MW	CO, LEL
3H	H2S, LEL, O2	2HM	CO, H2S
3M	CO, LEL, O2	M	CO
2	LEL, O2	X	O2
2HW	LEL, H2S	W	LEL
3S	SO2, LEL, O2	H	H2S
		S	SO2

x indicates the Shell color of the Unit

x Code	Color
[blank]	Yellow
B	Black

y indicates the Datalogger Option

y Code	Meaning
[blank]	Standard unit (non-datalogging)
DL1	Black Box datalogger
DL2	User accessible datalogger
DL2-IR	User accessible datalogger / IR

z indicates a set of options specific to a customer

z Code	Customer
[blank]	none/default
BELL	Bell Canada

CONDITIONS OF CERTIFICATION: YES as shown below:

The following are noted on the product in addition to Marking information:

WARNING: BATTERIES MUST ONLY BE CHANGED IN NON-HAZARDOUS AREA.

Use approved 1.5V AA Batteries only. See Manual for approved listing.



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

1721442: To include the addition of new internal beepers and a modification to the plastic housing to accommodate the new beepers. 1867114: To include the additional of Delkin MMC Cards.