



# 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 05.0008X**

Issue No.: **0**

Status:

**Current**

Date of Issue:

**2005-04-26**

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Applicant:

**BW Technologies Ltd.**  
2840 – 2nd Ave. S.E.  
Calgary, Alberta  
T2A 7X3  
Canada

Electrical  
Apparatus:

**GasAlertMicro 5 Portable Gas Detector (refer to Schedule)**

*Optional  
accessory:*

Type of Protection: **Ex ia**

Marking:

**IECEX CSA 05.0008X**  
**Ex ia IIC**  
**Energizer E91 153°C (Ta ≤ 40°C) or 163°C**  
**(Ta ≤ 50°C)**  
**Duracell MN 1500 T4 (Ta ≤ 40°C) or 139.8°C**  
**(Ta ≤ 50°C)**  
**NiMH T4 (Ta ≤ 50°C)**  
**Max Ambient Range –20 to +50°C**

*Approved for issue on behalf of the IECEx  
Certification Body:*

Joe Gryn

*Position:*

Director, Conformity Assessment

*Signature:  
(for printed version)*

*Date:*

28/04/2005

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 Ave. S.E.  
Calgary, Alberta  
T2A 7X3  
**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:

<b>IEC 60079-0 : 2000</b> Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 1999</b> Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: 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:  
**CA/CSA/05/TR157918-1592756**

File Reference:  
**157918-1592756**



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## Schedule

### EQUIPMENT:

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

M5-XWT<sub>1</sub>T<sub>2</sub>-R-P-D-A-B-CC and M5PID-XWT<sub>1</sub>T<sub>2</sub>-R-P-D-A-B-CC

X indicates the installed gas detector module option for oxygen  
0 = Empty X = O<sub>2</sub>

W indicates the installed gas detector module option for combustible  
0 = Empty W = LEL

T<sub>1</sub>, T<sub>2</sub> indicates the Toxic Sensor options  
O = Empty H = H<sub>2</sub>S M = CO S = SO<sub>2</sub> C = Cl<sub>2</sub> V = ClO<sub>2</sub> A = NH<sub>3</sub>  
P = PH<sub>3</sub> Z = HCN D = NO<sub>2</sub> G = O<sub>3</sub> Q = PID\*\* Y = CO/H<sub>2</sub>S Twin Tox\*  
\*\*-T<sub>1</sub> only \* -T<sub>2</sub> only

R indicates the Battery option  
A = Alkaline R = Rechargeable NiMH battery pack

P indicates the atmosphere sampling method  
D = Diffusion P = Sampling Pump

D indicates the datalogging capabilities  
O = None D = Employed, with Fleet Manager software

A, B, CC are Custom parameters, not affecting Intrinsic Safety

### CONDITIONS OF CERTIFICATION: YES as shown below:

Only the following batteries may be used in the Gas Alert Micro5

Duracell MN1500
Energizer E91
M5-BAT01 (contains three Sanyo HR-3U-2300AAAB or HR-3U-2500AAAB cells)

Alkaline batteries may only be changed in a non-hazardous atmosphere.

Annexe: