



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 05.0015** Issue No.: 0

Status: **Current**

Date of Issue: **2005-11-30** Page 1 of 3

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

Electrical Apparatus: **GasAlert MicroClip Portable Gas Detector Models MC-X-W-M- H-a-bb-cc**
Optional accessory:

Type of Protection: **Ex ia**

Marking: **BW Technologies Canada T2A 7X9**
Model Number
Serial Number
Ex ia IIC
Temperature Code: T4
Ambient Range -20 to + 58°C
Certificate Number

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

Davey Li

Position:

Technical Manager

*Signature:
(for printed version)*

Date:

December 12, 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.

Certificate issued by

CSA International

178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada
and
1707 - 94th Street
Edmonton, AB T6N 1E6
Canada



CSA INTERNATIONAL



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Manufacturer: **BW Technologies Ltd.**
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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 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:

IEC 60079-0 : 2000 Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-11 : 1999 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/TR157918-1730357

File Reference:
157918-1730357



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

MC-X-W-M-H-a-bb-cc

X	=	Indicates the Oxygen Sensor
W	=	Indicates the Combustible Sensor
M	=	Indicates the Carbon Monoxide Sensor
H	=	Indicates the H ₂ S Sensor
a	=	Custom parameter, non effecting I.S.
bb	=	Custom parameters, non effecting I.S.
cc	=	Custom parameters, non effecting I.S.

X indicates the installed gas detector module option for oxygen

X Code	Gasses Detected
0	Empty (Dummy sensor)
X	O ₂

W indicates the installed gas detector module option for combustible

W code	Gasses Detected
0	Empty (Dummy sensor)
W	LEL

M indicates Carbon Monoxide Sensor

M code	Carbon Monoxide Sensor
0	Empty , Dummy Sensor
M	Low Range, 0-500 ppm
M1-M5	Other instrument ranges

H indicates H₂S Sensor

H Code	H ₂ S Sensor
0	Empty, Dummy Sensor
H	Sampling Pump
H1-H5	Other Instrument Ranges

CONDITIONS OF CERTIFICATION: NO

Annexe: