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 UL 04.0003** Issue No.: **2**

Status: **Current**

Date of Issue: **2004-12-21** Page **1** of **4**

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

Electrical Apparatus: **GasAlert Extreme Series Single Gas Monitor**
Optional accessory:

Type of Protection: **Ex ia IIC T4**

Marking: **IECEx UL 04.0003**
Ex ia IIC T4
-40 C < Tamb < +50 C

Approved for issue on behalf of the IECEx Certification Body: Kerry McManama

Position: General Manager

Signature:
(for printed version)

Date: 21 June 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:

Underwriters Laboratories Inc (UL)
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America

Working for a safer world

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Manufacturer: **BW Technologies**
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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'rs 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:	File Reference:
US/UL 03NK36363	**03NK36363**
US/UL 04NB56648	**04NB56648**
US/UL 05NK10116	**05NK10116**

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Schedule

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

The GasAlert Extreme Series are portable, disposable, battery operated, single gas monitors. They are intended for the detection of toxic gases and oxygen depletion. The series consists of the base model GAXT followed by the following suffixes:

Gas Code	Gas
H	Hydrogen Sulphide
H2	Low Methanol Hydrogen Sulphide
M	Carbon Monoxide
M2	Carbon Monoxide (low H2)
S	Sulfur Dioxide
C	Chlorine
Z	Hydrogen Cyanide
D	Nitrogen Dioxide
A	Ammonia
A2	High Range Ammonia
P	Phosphine
X	Oxygen
E	Ethylene Oxide
N	Nitric Oxide
V	Chlorine Dioxide
G	Ozone

CONDITIONS OF CERTIFICATION: NO

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

Issue 1
Alternate fuses were approved for use in the GasAlert Extreme gas monitor.

Issue 2
The following changes were made:
1. Addition of two new gas sensors: H2 - Hydrogen Sulphide and A2 - High Range Ammonia.
2. A parts change for a thermistor. The replacement thermistor has the same rating and size of the previously used thermistor.
3. R42 range changed from "10K to OPEN" to "0 to OPEN". Resistor size and type remained the same.
4. The beeper is correctly identified as to manufacturer rather than distributor.
No clauses were affected by the changes. Changes do not affect intrinsic safety.

Annexe: