



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 06.0011X	Issue No: 9	<u>Certificate history:</u>
Status:	Current	Page 1 of 5	Issue No. 9 (2015-08-20)
Date of Issue:	2015-08-20		Issue No. 8 (2013-07-18)
Applicant:	BW Technologies by Honeywell 2840 - 2nd Ave S.E. Calgary, Alberta T2A 7X9 Canada		Issue No. 7 (2013-02-05)
Electrical Apparatus:	M5-XWT1T2-R-P-D-A-B-CC, M5PID-XWT1T2-R-P-D-A-B-CC, M5IR-XWT1T2 -R-P-D-A-B-CC		Issue No. 6 (2012-05-24)
Optional accessory:			Issue No. 5 (2011-11-21)
Type of Protection:	Ex ia; Ex d ia		Issue No. 4 (2009-05-05)
Marking:	- Ex d ia IIC Gb (M5IR) - Ex ia IIC Ga (M5 and M5PID) - Temperature Code: Duracell MN1500 = T-Code T4; Energizer E91 = T-Code 135.3°C; Lithium Polymer Rechargeable Battery pack "M5-BAT08" or "M5-BAT08B"; T-Code T4; Ambient Range -20 to + 50°C.		Issue No. 3 (2008-02-15)
			Issue No. 2 (2007-11-15)
			Issue No. 1 (2007-02-12)

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:



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CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada
and
1707 - 94th Street
Edmonton, AB T6N 1E6
and
8503 East Pleasant Valley Road,
Independence, Ohio, USA
44131-5516
Canada





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Manufacturer: **BW Technologies by Honeywell**
2840 - 2nd Ave 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, Mexico 32574
Mexico

Honeywell Analytics Ltd.
Hatch Pond House
4 Stinsford Rd
Nuffield Industrial Estate
Poole, Dorset BH17 0RZ
United Kingdom

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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:6
IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

*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

Test Report:

CA/CSA/ExTR07.0001/00	CA/CSA/ExTR07.0001/02	CA/CSA/ExTR08.0001/00
CA/CSA/ExTR08.0001/02	CA/CSA/ExTR08.0001/03	CA/CSA/ExTR08.0001/04
CA/CSA/ExTR08.0001/05	CA/CSA/ExTR08.0001/06	CA/CSA/ExTR08.0001/07

Quality Assessment Report:

GB/SIR/QAR11.0027/03	US/UL/QAR06.0006/08	US/UL/QAR07.0003/05
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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Portable gas detector incorporating Ex ia or Ex d ia protection methods, with following nomenclature:

M5-XWT₁T₂-R-P-D-A-B-CC; M5PID-XWT₁T₂-R-P-D-A-B-CC; M5IR-XWT₁T₂-R-P-D-A-B-CC

X	=	Indicates the Oxygen Sensor
W	=	Indicates the Combustible Sensor
T ₁	=	Indicates the Interchangeable Toxic Sensor (1 st Sensor)
T ₂	=	Indicates the Interchangeable Toxic Sensor (2 nd Sensor)
R	=	Battery Option
P	=	Sampling Method
D	=	Datalogging Capability
A	=	Custom parameters, non effecting I.S.
B	=	Custom parameters, non effecting I.S.
CC	=	Custom parameters, non effecting I.S.

CONDITIONS OF CERTIFICATION: YES as shown below:

- Warning: Batteries must only be changed in Non-Hazardous Area (For Alkaline battery equipped models)
- Use approved 1.5V AA Batteries only. See Manual for approved listing. (For Alkaline battery equipped models)
- WARNING: For use with GasAlertMicro 5 instruments ONLY. Battery must only be charged in a non-hazardous area. (For Lithium Polymer Rechargeable Battery pack "M5-BAT08" or "M5-BAT08B" equipped models)



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

Issue 1 - update to add new piezo buzzer, EEPROM change and alternate memory cards

Issue 2 - update to add lithium polymer battery pack

Issue 3 - minor circuit changes plus addition of PID and electrochemical sensors.

Issue 4 - update to revise temperature code ratings based on battery testing in a 50°C ambient

Issue 5 - update to revise pump motor, revision to main board layout and add alternate manufacturing location

Issue 6 - update to correct label / user manual marking information and revise sensor cover to enlarge the diameter of one hole.

Issue 7 - update to correct the Narada Lithium Battery part number from NL704060F0 to NLC704050LT20-2P. This was documented incorrectly in the ExTR.

Issue 8 - Update of report to change to LCD module and associated power circuit.

Issue 9 - Update to IECEx CSA 06.0011X and CA/CSA/ExTR08.0001 for the Gas Alert Micro 5IRCO2 portable infrared gas detector to add an alternate vibrating motor, include firmware changes, and minor PCB layout changes. Also add manufacturing location Juarez, Mexico (US/UL/QAR07.0003/05) and update Poole location QAR (GB/SIR/QAR11.0027/03).