

# EC-TYPE EXAMINATION CERTIFICATE



[1]

[2]

## Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

[3]

EC-Type Examination Certificate Number: **DEMKO 14 ATEX 1356 Rev. 2**

[4]

Equipment or Protective System: **Single Gas Monitor, Model BWC series**

[5]

Manufacturer: **BW Technologies By Honeywell**

[6]

Address: **2840 2<sup>nd</sup> Avenue SE, Calgary, Alberta Canada, T2A 7X9**

[7]

This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. **4787043982**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012+A11:2013**

**EN 60079-11:2012**

**EN 60079-26:2007**

[10]

If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11]

This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system.

These are not covered by the certificate.

[12]

The marking of the equipment or protective system shall include the following:

II 1 G Ex ia IIC T4 Ga

### Certification Manager

Jan-Erik Storgaard

This is to certify that the sample(s) of the Equipment described herein ("Certified Equipment") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. This certificate and test results obtained apply only to the equipment sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured equipment. UL has not established Follow-Up Service or other surveillance of the equipment. The Manufacturer is solely and fully responsible for conformity of all equipment to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

**Date of issue:** 2014-12-29

**Re-issued:** 2015-10-09



### Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark  
Tel. +45 44 85 65 65, [info.dk@ul.com](mailto:info.dk@ul.com), [www.ul.com](http://www.ul.com)

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**Schedule**  
**EC-TYPE EXAMINATION CERTIFICATE No.**  
**DEMKO 14 ATEX 1356 Rev. 2**  
**Report: 4787043982**

[15]

Description of Equipment or protective system

The BW Clip is a hand-held single gas monitor designed to continuously monitor one toxic gas. The unit samples the atmosphere in diffusion mode using one electrochemical sensor for one of four gases: CO, H2S, O2, or SO2. Power is provided by one non-user replaceable, 3.6V Lithium Thionyl Chloride or Lithium Manganese Dioxide primary cell. Readings are displayed on an LCD and the device has audible, visual, and vibrating alarms when set, user-configurable conditions are exceeded. The device has no facilities for connection of external electrical circuits.

Model Nomenclature:

BW Clip model BWC followed by a number, followed by R or blank, followed by -H, -M, -S, or -X.

Performance testing

The measuring function of the BW Clip Model BWC for explosion protection, according to Annex II clause 1.5.5, 1.5.6 and 1.5.7 of the Directive 94/9/EC, is not covered in this certificate

The optical radiation output of the apparatus with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 94/9/EC is covered in this certificate.

Temperature range

The ambient temperature ranges for the series are as follows:

Code	Gas Type	Description	Ambient Temperature Range
H	H2S	Hydrogen Sulfide	-40°C to +50°C
M	CO	Carbon Monoxide	-30°C to +50°C
S	SO2	Sulphur Dioxide	-30°C to +50°C
X	O2	Oxygen	-20°C to +50°C

Routine tests

None.

[16]

Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [ 8 ] on page 1 of this EC-Type Examination Certificate.

[17]

Specific conditions of use:

None.

[18]

Essential Health and Safety Requirements


Concerning ESRs this Schedule verifies compliance with the Annex III of ATEX directive only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II of this Directive.

Additional information

The BW Clip has in addition passed the tests for Ingress Protection to IP 67 in accordance with EN 60529: 1991/A1 2000.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.



The trademark  will be used as the company identifier on the marking label.