

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. 0**
- [4] Equipment or Protective System: **Single Gas Monitor, Model BWC series**
- [5] Manufacturer: **BW Technologies By Honeywell**
- [6] Address: **2840 2nd Avenue SE, Calgary, AB T2A 7X9, Canada**
- [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. **4786456018**
- [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

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



Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com

[13]

Schedule

[14]

EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 14 ATEX 1356 Rev. 0

Report: 4786456018

[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	H ₂ S	Hydrogen Sulfide	-40°C to +50°C
M	CO	Carbon Monoxide	-30°C to +50°C
S	SO ₂	Sulphur Dioxide	-30°C to +50°C
X	O ₂	Oxygen	-20°C to +50°C

Routine tests

None.

[16]

Report No.

Project Report No.: 4786456018 (Hazardous Location Testing)

Documents:

Description:

Instruction manual
 Palomino Assembly, Exploded
 Certification Label
 Certification Material Details
 Brand Label Artwork
 Certification BOM
 Schematic
 Artwork, Component and Trace Layout
 Fabrication Notes

Drawing No.:

OM-EN-PALO
 Palod-61
 PALOA-04
 PALOD-62
 PALOA-02
 BW Clip EBoM
 PALO-01
 PALOE-01C.cam
 PALOE-01C

Rev. Level:

A3
 A2
 A1
 A2
 B1
 A1
 C
 C
 C

Date:

-
 16-Sept-2014
 17-Oct-2014
 07-Oct-2014
 12-Aug-2014
 2014-12-03
 2014-01-27
 2014-01-29
 2014-01-29

[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 EN60529: 1991/A1 2000.

This certificate was issued as "Accredited by DANAK under registration number 7011 to certification of products".

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.

