[1]

[2]

EU-TYPE EXAMINATION CERTIFICATE



Component intended for use on/in Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- [3] EU-Type Examination Certificate Number: DEMKO 01 ATEX 015742U Rev. 3
- [4] Component: HK Series Flameproof Enclosures
- [5] Manufacturer: Killark, Div. of Hubbell Inc. (Delaware)

[6] Address: 2112 Fenton Logistics Park Blvd., Fenton, MO 63026 USA

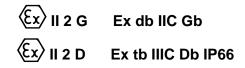
- [7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [8] UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of the European Parliament and the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to design and construction of components 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. US/UL/ExTR14.0101/03.

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

EN IEC 60079-0:2018 EN 60079-1: 2014 EN 60079-31:2014

- [10] The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- [11] This EU-Type Examination Certificate relates only to the design and construction of the specified component. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.
- [12] The marking of the component shall include the following:



Certification Manager Jan-Erik Storgaard	I his is to certify that the sample(s) of the Component described herein ("Certified Component") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the component 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 component. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all products 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: 2015-02-03		
	Re-issued: 2021-11-30		
Notified Body	UL International Demko A/S, Ballerup 5A, 2750 Ballerup, Denmark Tel. +45 44 85 65 65, <u>info.dk@ul.com</u> , <u>www.ul.com</u>		

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Schedule **EU-TYPE EXAMINATION CERTIFICATE No.** DEMKO 01 ATEX 015742U Rev. 3

[15]

Description of Component: These devices are empty aluminum or stainless steel flameproof enclosures, with a single or double enclosure body. The cover can be of blank, glass lens, dome, or glass lens dome construction, with various openings and locations.

Nomenclature for HK Enclosures

Double Port Enclosure Nomenclature

2HKB I	BC II	BC III	0 IV
I	Back Box Type 2HKB 2HKSB	Aluminum Box Double Stainless Steel Box Do	
ΙΙ	Cover Assembly – BC 1DC 2DC 4DC GLC 1GLDC 2 GLDC 4 GLDC	Side 1 Blank 1 in. High Dome Cover 2 in. High Dome Cover 4 in. High Dome Cover Glass Lens Cover 1 in. High Glass Lens (2 in. High Glass Lens (4 in. High Glass Lens (r Cover Cover
III	Cover Assembly – BC 1DC 2DC 4DC GLC 1GLDC 2 GLDC 4 GLDC	Side 2 Blank 1 in. High Dome Cover 2 in. High Dome Cover 4 in. High Dome Cover Glass Lens Cover 1 in. High Glass Lens (2 in. High Glass Lens (4 in. High Glass Lens (r Cover Cover
IV *Not to be	Side Alternate Ma 0 10 1S 20 2S used for cable or c	chining None 1/2 in. NPT 1/2 in. NPSM* 3/4 in. NPT 3/4 in. NPSM* onduit connections.	



[13] [14]

Schedule EU-TYPE EXAMINATION CERTIFICATE No. DEMKO 01 ATEX 015742U Rev. 3

Single Port Enclosure Nomenclature

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[14]

HKB I	1GLDC II	1S III	20 IV	
I	Back Box Type HKB HKBD HKSB HKSBD	Aluminum Box Single Port Aluminum Deep Box Single Port Stainless Steel Box Single Port Stainless Steel Deep Box Single Port		
ΙΙ	B 1D 2D 4D GL 1GLD 2GLD 4GLD	Blank 1 in. High Dome Cover 2 in. High Dome Cover 4 in. High Dome Cover Glass Lens Cover 1 in. Glass Lens Cover 2 in. Glass Lens Cover 4 in. Glass Lens Cover		
III	Back Alternate Ma 0 10 1S 20 2S	achining None 1/2 in. NPT 1/2 in. NPSM* 3/4 in. NPT 3/4 in. NPSM*		
IV	Side Alternate Ma 0 10 1S 20 2S	chining None 1/2 in. NPT 1/2 in. NPSM* 3/4 in. NPT 3/4 in. NPSM*		
	e used for cable or c	conduit connections	5.	
Cat. No. I	HKBX Enclosure No	menclature		
HKBX I	BC II	1S III	20 IV	
I	Back Box Type HKBX	Aluminum Box Si	ingle Port – Increased opening	
II	BC GLC 2DC 2GLDC	Blank Flat Cover Flat Lens Cover 2 in. High Dome 2 in. High Dome	Cover Glass Lens Cover	
III	Back Alternate Ma Blank 10 1S	achining None 1/2 in. NPT 1/2 in. NPSM*		
	20 2S M20 M25	3/4 in. NPT 3/4 in. NPSM* M20 Metric** M35 Metric**		
IV	2S M20 M25 Side Alternate Ma SM 2S M25	3/4 in. NPSM* M20 Metric** M35 Metric** chining 3/4 in. NPT 3/4 in. NPSM* M25 Metric**	20	
Not to be	2S M20 M25 Side Alternate Ma SM 2S M25 M25 MX e used for cable or c	3/4 in. NPSM M20 Metric** M35 Metric** chining 3/4 in. NPT 3/4 in. NPSM* M25 Metric** Mix of above size conduit connection	es c conduit connections	

Temperature range The ambient temperature range is -60 $^\circ C$ to +70 $^\circ C$

Schedule **EU-TYPE EXAMINATION CERTIFICATE No.** DEMKO 01 ATEX 015742U Rev. 3

Routine tests

[13]

[14]

Routine tests according to EN 60079-1 cl. 16.1 are not required, as the enclosures have been successfully tested at four times the reference pressure.

[16] **Descriptive Documents**

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

[17] Schedule of limitations:

- Where necessary for safety, the contents of the enclosure shall comply with the appropriate requirements of relevant standards for electrical apparatus for use in potentially explosive atmospheres.
- The assembled equipment shall comply with the appropriate requirements of relevant standards for electrical apparatus for use in potential explosive atmospheres.
- The enclosure's apparatus may be placed in any arrangement provided that an area of at least 40% of each cross sectional area remains free to permit unimpeded gas flow and, therefore, unrestricted development of an explosion. Separate relief areas may be aggregated provided that each area has a minimum dimension in any direction of 12.5 mm.
- Rotating or other devices, which create turbulence, shall not be incorporated.
- Liquids shall not be used when there is risk of producing an explosive mixture by the decomposition of or release of oxygen by these liquids.
- The use of energy storage devices may present difficulties, due to the possibility of sparking, after isolation from the supply, when the enclosure cover is removed. In addition, secondary cells, and in some cases primary cells may emit flammable gas not considered under the normal certification conditions. The following requirements shall apply:
 - All such devices shall be provided with adequate means to prevent incendive sparking when flameproof covers are removed
 - . Enclosures which can be opened more quickly than the time necessary for the discharge of incorporated capacitors to a residual energy of:
 - 0.2 mJ for electrical apparatus of Group I or Group IIA, or
 - 0.06 mJ for electrical apparatus of Group IIB
 - 0.02 mJ for electrical apparatus of Group IIC
 - shall be provided with a label stating the delay required before attempting to open the enclosure.
 - If enclosed components have a temperature above that of the temperature classification of the electrical apparatus a label shall be provided stating the delay necessary before attempting to open the enclosure to allow the component to cool below the temperature classification.
- Oil-filled contactors shall not be used.
- No holes, whether for mechanical or electrical purpose and whether blind or clear, shall be drilled in the enclosure other than those shown on the Component Certificate Drawings D-20675 & D-20676.
- All entry devices shall be of a type specified in the certification documents having an appropriate component Certificate and suitable for the conditions of use or be specifically certified with the apparatus.
- Any unused entry shall be closed by a device specified in the certification documents having an appropriate Component Certificate or be specifically certified with the apparatus.
- The holder of the final Certificate will be required to provide information to enable the test authority to verify compliance with the above and the relevant parts of the certification standard not explicitly covered by the Component Certificate (e.g. temperature classification).
- The window temperature must not exceed 120°C for models HKB, HKBD, 2HKB, HKSB, and 2HKSB.
- The window temperature must not exceed 97°C for models HKBX.
- The sealing cement on the windows shall not exceed 87°C for models HKB, HKBD, 2HKB, HKSB, and 2HKSB.
- Flameproof joints are not to be repaired in the field. If the flamepath is damaged the enclosure is to be removed from service and replaced with a new properly working enclosure.

[18] Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

<u>Additional information</u> The HKB, HKBD, 2HKB, HKSB, 2HKSB and HKBX Series have in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529:1991+A1:2000+A2:2013.



[®] KILLARK will be used as the company identifier on the marking label.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

00-IC-F0056-2 - Issue 26.0