

EU-TYPE EXAMINATION CERTIFICATE



[1]

[2]

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

[3]

EU-Type Examination Certificate Number: **DEMKO 01 ATEX 130437X Rev. 3**

[4]

Product: **High Voltage Junction Box**

[5]

Manufacturer: **Adalet/Scott Fetzer Company**

[6]

Address: **4801 W. 150th Street, Cleveland, OH 44135 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 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products 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. **4788166291**

[9]

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

EN 60079-0:2012+A11:2013

EN 60079-7:2007

EN 60079-31:2014

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

[12] The marking of the product shall include the following:

II 2 G Ex e II T5 Gb

II 2 D Ex tb IIIC T90°C Db

Certification Manager

Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") 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 product 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 product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product 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: 2013-02-01

Re-issued: 2018-01-08

Notified Body

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[13]

[14]

Schedule

EU-TYPE EXAMINATION CERTIFICATE No.

DEMKO 01 ATEX 130437X Rev. 3

[15] Description of Product

The Type HV series of enclosures are junction boxes provided with increased safety terminal blocks. These enclosures are manufactured of powder coated cold rolled steel, brushed finish stainless steel 304 and brushed finish steel 316L respectively and are available in various sizes and depths. The boxes consist of a cover, hinge assembly, body, grounding lug, gland plates, gaskets and two types of porcelain stand-offs used for terminal connections. The porcelain stand-offs may be provided with a 1x1 terminal construction or a 2x2 terminal construction. The enclosures may be mounted in a vertical or horizontal position and can be fitted with up to eight gland plates to provide future expansion and configuration.

The Type HV series of stainless steel enclosures are for high power use. The enclosures contain two types of porcelain stand-offs used for terminal connections and are either provided with 1x1 or 2x2 terminal construction.

Nomenclature for Type HV:

HV4	-2412	06	-A	R0010
I	II	III	IV	V

I – Enclosure Material

- HV4 – Powder Coated Cold Rolled/Hot Rolled Steel
- HV4X – Brushed Finish Stainless Steel 304
- HV4X6 – Brushed Finish Stainless Steel 316L

II – Enclosure Sizes

	Size (L x W) Dimensions in mm
-1616	406 x 406
-2012	508 x 305
-2014	508 x 356
-2016	508 x 406
-2020	508 x 508
-2412	610 x 305
-2416	610 x 406
-2420	610 x 508
-2424	610 x 610
-2518	635 x 457
-3016	762 x 406
-3020	762 x 508
-3022	762 x 559
-3024	762 x 610
-3624	914 x 610
-3625	914 x 635
-6036	1524 x 914

III – Enclosure Depth

XX – Maximum 406 mm

IV – Gland Plate Location(s)*

- A – Gland plate on topside
- B – Gland plate on bottom side
- C – Gland plate on left side
- D – Gland plate on right side

*Omit dashes when multiple gland plates are installed.

V – Adalet Assembly Part Number

XXXXX – Any five digit alphanumeric characters.

Temperature range

The relation between ambient temperature and the assigned temperature class is as follows:

Ambient temperature range
-50°C to +55°C

Temperature class
T5

Terminal construction
2x2 and 1x1

Electrical data

Maximum Voltage - Type HV Series: 11 kV

Routine tests

Routine Dielectric Tests are required per Clause 7 of EN 60079-7:2007.

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EU-TYPE EXAMINATION CERTIFICATE No.

DEMKO 01 ATEX 130437X Rev. 3

[13]

[14]

[16]

Descriptive Documents

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

[17]

Specific conditions of use:

- These enclosures shall be installed to flat rigid surface using the mounting means provided.
- All unused device openings must be fitted with a certified close up plug equivalent of the apparatus and must be marked with an IP66 rating.
- The approval applies to equipment without cable/conduit entries. When installing cable or conduit entries, the cable/conduit fitting must be certified as flameproof 'd' or increased safety 'e', dust protection type 'tb', and have a minimum IP66 rating equal to the marking on the enclosure.
- Conductors shall be chosen that have a rating above the anticipated maximum ambient temperature. The operating temperature of conductors should be controlled at or below the conductor rating by coordinating conductor size, number of associated conductors, and ampacity for the particular conductor rating and ambient temperature.
- After installation, all creepage distances and clearances shall be according to Table 1 in EN 60079-7:2007.
- To minimize the risk of electrostatic charge, provisions shall be made for adequate grounding and equipment shall be installed in such a manner so that accidental discharge shall not occur.

[18]

Essential Health and Safety Requirements

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

Additional information

The HV Series enclosure has in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529:1991+A1:2000+A2:2013.

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.