EC-TYPE EXAMINATION CERTIFICATE



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

- EC-Type Examination Certificate Number: DEMKO 09 ATEX 0803119X Rev. 2 [3]
- Equipment or Protective System: **Terminal Enclosures** [4]
- Manufacturer: Adalet/Scott Fetzer Co. [5]

[2]

- Address: 4801 W. 150th Street, Cleveland, OH 44135, USA [6]
- This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the [7] documents therein referred to.
- 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, [8] 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. 4786735988-09ATEX0803119X

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

EN 60079-0:2012+A11:2013

EN 60079-7:2007

EN 60079-31:2009

- [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.

The marking of the equipment or protective system shall include the following: [12]

Ex e IIC T6...T4 Gb for VC, VH, VCND, and VHND series



Ex tb IIIC T120°C Db IP66 for VC and VH series

Certification Manager Jan-Erik Storgaard

This is to certify that the sample(s) of the Equipment described herein ("Certified Equipment") has beer 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: 2009-06-18 Re-issued: 2015-03-02

Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark

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Schedule [13] EC-TYPE EXAMINATION CERTIFICATE No. [14] **DEMKO 09 ATEX 0803119X Rev. 2** Report: 4786735988-09ATEX0803119X [15] Description of Equipment or protective system These devices are Ex e IIC terminal enclosures constructed out of brushed finish carbon steel, 316L stainless steel, or 304 stainless steel and are available in various sizes and depths. The enclosures consist of a cover, hinge assembly, body, external and internal grounding lugs, gland plates, gaskets and welded mounting lugs. The enclosures may be mounted in a vertical or horizontal position. Nomenclature: VC4X6 ng 06 05 Ш IV Basic Enclosure Designation VC4X - Brushed Finish Stainless Steel 304 VC4X6 - Brushed Finish Stainless Steel 316L VCND4 - Cold Rolled/Hot Rolled Carbon Steel VCND4X - Brushed Finish Stainless Steel 304 VCND4X6 - Brushed Finish Stainless Steel 316L II. **Enclosure Length** XX - Any two-digit number (30 maximum) III. **Enclosure Width** XX - Any two-digit number (30 maximum) IV. **Enclosure Depth** XX – Any two-digit number (16 maximum) Mounting Feet H – Horizontal V – Vertical VI. Gland Plate Location A - Gland Plate on Top Side B - Gland Plate on Bottom Side C - Gland Plate on Left Side D - Gland Plate on Right Side VH4X6 10 06 10 Basic Enclosure Designation VH4X - Brushed Finish Stainless Steel 304 VH4X6 - Brushed Finish Stainless Steel 316L VHND4 - Cold Rolled/Hot Rolled Carbon Steel VHND4X - Brushed Finish Stainless Steel 304 VHND4X6 - Brushed Finish Stainless Steel 316L 11. **Enclosure Length** XX – Any two-digit number (30 maximum) III. **Enclosure Width** XX - Any two-digit number (30 maximum) IV. **Enclosure Depth** XX – Any two-digit number (16 maximum) Gland Plate Location A – Gland Plate on Top Side B - Gland Plate on Bottom Side C - Gland Plate on Left Side



- Gland Plate on Right Side

[14]

Schedule EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 09 ATEX 0803119X Rev. 2 Report: 4786735988-09ATEX0803119X

Temperature range

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

Ambient temperature range	Temperature clas
-50°C to +40°C	T6
-50°C to +55°C	T5
-50°C to +60°C	T4

Electrical data

Maximum Working Voltage: 1100 Volts

Maximum Amperage: 500 Amps maximum (dependent on the terminal block installed)

Installation instructions

- These enclosures shall be installed to a flat rigid surface using the mounting means provided.

Routine tests

Routine tests are not required.

[16] Report No.

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:

- This certificate applies to equipment without cable/conduit entries. When installing cable or conduit entries, the cable/conduit
 entries must be certified as increased safety or flameproof, for protection type 'tb', and have a minimum IP66 rating for the VC
 and VH enclosures. When installing cable or conduit entries, the cable/conduit entries must be certified as increased safety
 or flameproof and have a minimum IP66 rating for the VCND and VHND enclosures. All unused conduit openings must be
 fitted with a certified close up plug equivalent of the apparatus and must be marked with an IP66 rating.
- The number of conductors entering the enclosure plus the number of internal connections (bridges and ground conductors are not counted) shall not exceed that of the Enclosure Size Terminal Content sheets.
- After installation, all creepage distances and clearances shall be according to Table 1 in EN 60079-7:2007.
- All conductors/cables shall be copper and shall be suitable for: 80°C when -50°C≤Ta≤+40°C, 95°C when -50°C≤Ta≤+55°C, 100°C when -50°C≤Ta≤+60°C.
- Each terminal block shall not be specified to accommodate more than one individual conductor in a clamping point unless specifically designed and assessed for doing so.
- For screwless connections intended for Class 5 or Class 6 fine stranded conductors according to IEC 60228, the fine
 stranded wire shall be equipped with a ferrule or the termination shall have a method to open the clamping mechanism so that
 the conductors are not damaged during installation of the conductor.
- The end user shall provide bonding means as necessary.
- See enclosure outline for conduit/cable layout information, minimum wire bending requirements, and minimum electrical clearance.
- 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.
- When two wires are used, they shall be of the same type and size.
- All unused terminals shall be tightened.

[18] <u>Essential Health and Safety Requirements</u>

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

All terminal enclosures have in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529: 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.