

[1]

EU-TYPE EXAMINATION CERTIFICATE



[2]

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

[3]

EU-Type Examination Certificate Number: **DEMKO 12 ATEX 1208439X Rev. 4**

[4]

Product: **Flameproof and Increased Safety Terminal Enclosures**

[5]

Manufacturer: **Adalet/Scott Fetzer Co.**

[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. **US/UL/ExTR12.0046/04.**

[9]

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

EN IEC 60079-0:2018

EN 60079-7:2015 + A1:2018

EN 60079-1: 2014

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 db eb IIB T6...T5 Gb



II 2 G Ex db eb IIB+H2 T6...T5 Gb



II 2 D Ex tb IIIC T100°C Db IP66

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: 2013-03-04

Re-issued: 2022-09-30

Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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[13]

Schedule

[14]

EU-TYPE EXAMINATION CERTIFICATE No.

DEMKO 12 ATEX 1208439X Rev. 4

[15]

Description of Product

The XCEX-T and XCESX-T series of external flanged cast aluminum or 316 stainless steel enclosures may have conduit/cable entries in the box and openings in the cover for conduit entries.

The XCESX-T series is identical to the XCEX-T series of enclosures except that it is constructed from 316 stainless steel.

Types of variants comprised by the certificate:

Model No. XCEX-T followed by 041604, 060804, 060805, 060806, 061105, 061204, 061206, 061305, 071004, 071006, 071805, 080804, 080806, 080808, 081004, 081006, 081008, 081204, 081206, 081208, 091105, 101004, 101006, 101008, 101206, 101404, 101406, 101408, 101410, 121204, 121206, 121208, 121804, 121806, 121808, 122005, 122404, 122406, 122408, 122410, 123006, 123604, 123606, 123608, 124608, 141404, 141406, 141408, 142210, 142213, 142806, 161604, 161606, 161608, 162406, 162408, 162410, 162806, 163010, 163406, 164610, 181804, 181806, 181808, 182406, 182408, 182410, 183008, 183608, 183610, 203606, 203612, 204806, 204812, 242408, 242410, 243008, 243608, 243610 and 323612 Enclosures. All numbers may be followed by -N4.

Model No. XCESX-T followed by 081006, 101408, 121208, 122410, 161608, 182410, 242410, and 243610 Enclosures.

These enclosures will be populated with terminals located on DS589TB-XCEX-T.

Temperature range

The surface temperature for 'tb' applications is 100°C regardless of the upper ambient temperature applied.

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

Ambient temperature range	Temperature class
-20 °C to +40 °C	T6
-20 °C to +55 °C	T5

Electrical data

Maximum working voltage 1.1 kV.

Routine tests

Routine dielectric testing is required for the Phoenix Contact UT 2.5/35 detailed on DS589TB-XCEX-T. The dielectric tests shall be performed per Clause 7.1 of EN 60079-7:2015, in combination with Clause 6.1. The dielectric test shall be carried out at 1.2 times the test voltage and maintained for at least 100 milliseconds.

[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:

- The maximum number of apertures, their maximum sizes and their positions shall be addressed through direct statement or reference to a drawing number.
- See DS589M for all possible conduit/cable layout information, minimum wire bending requirements, and minimum electrical clearance.
- DS589TB-XCEX-T outlines all possible terminal blocks.
- 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 2 in EN 60079-7:2015.
- All conductors/cables shall be copper and shall be suitable for: 80°C when $-20 \leq T_a \leq +40^\circ\text{C}$ and 95°C when $-20 \leq T_a \leq +55^\circ\text{C}$.
- 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.
- When two wires are used, they shall be of the same type and size.

[18]

Essential Health and Safety Requirements

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

Additional information

The XCESX-T and XCEX-T series of enclosures have in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529: 1991/A1 2001.



The trademark 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.

