

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 12 ATEX 1208439X Rev. 2**

[4]

Equipment or Protective System: **Flameproof and Increased Safety Terminal Enclosures**

[5]

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

[6]

Address: **4801 W. 150th Street, Cleveland, OH 44135 USA**

[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. **4786735988-12ATEX1208439X**

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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 60079-1:2007
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.

[12]

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

II 2 G **Ex d e IIB T6...T5 Gb**
 II 2 D **Ex tb IIIC Db IP66 T100°C**

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: 2013-03-04

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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



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Schedule

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Description of Equipment or protective system

The XCEX-T and XCESX-T series of external flanged cast aluminium 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 101408, 121208, 122410, 242410, and 243610 Enclosures.

These enclosures will be populated with terminals located on DS589TB.

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.

Installation instructions

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

All cable entry devices and blanking elements shall be certified for type 'e', 'd', 'tb', and IP66.

Unused apertures shall be closed with suitable blanking elements of protection type 'e', 'd', 'tb', and IP66.

Mounting instructions

Refer to "Installation Instructions" DS630.

Routine tests

Routine dielectric testing is required for the Phoenix Contact UT 2.5/35 detailed on DS589TB. The dielectric tests shall be performed per Clause 7.1 of EN 60079-7:2007, 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.

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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.



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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.
- DS589M outlines all possible conduit entries.
- DS589TB 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 1 in EN 60079-7:2007.
- 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.
- 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.
- 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.
- When two wires are used, they shall be of the same type and size.
- All unused terminals shall be tightened.

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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 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 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.

