

EC-TYPE EXAMINATION CERTIFICATE



- [1]
- [2] **Component intended for use on/in equipment or protective system intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**
- [3] EC-Type Examination Certificate Number: **DEMKO 01 ATEX 0113363U Rev. 2**
- [4] Component: **Empty Enclosures, TSC4*, TSC4X*, TSC4X6* Series**
- [5] Manufacturer: **Adalet/Scott Fetzer Co.**
- [6] Address: **4801 W. 150th Street, Cleveland, OH 44135 USA**
- [7] This Component 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 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. **2308032.565637**
- [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 60079-31:2009**
- [10] The sign "U" placed after the certificate number 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 EC-Type examination certificate relates only to the design, examination and tests of the specified component in accordance with the Directive 94/9/EC. 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:

II 2 G Ex e IIC Gb

II 2 D Ex tb IIIC Db IP66

Certification Manager
Jan-Erik Storgaard

This 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 Equipment 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 component. The Manufacturer is solely and fully responsible for conformity of all component 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: 2002-02-05

Re-issued: 2016-04-18

Notified Body

UL International Demko A/S, Ballerup 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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EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 01 ATEX 0113363U Rev. 2

Report: 2308032.565637-01ATEX0113363U

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Description of Component:

These are empty steel or stainless steel enclosures with screw secured covers. The TSC4/TSC4X /TSC4X6 series of enclosures are manufactured of polyester powder coated steel or brushed, series 304 and 316 stainless steel (respectively) and are available in various sizes and depths. The boxes consist of a cover, body, grounding lug, gland plates, and gaskets. The enclosures may be mounted in a vertical or horizontal position and can be fitted with up to twelve (max.) gland plates to provide future expansion and configuration.

Nomenclature for Type TSC series:

<u>TSC4</u>	<u>-18</u>	<u>18</u>	<u>08</u>	<u>U</u>	<u>-EMC</u>	<u>-A</u>	<u>R001</u>
I	II	III	IV	V	VI	VII	VIII

I – Enclosure Material and type

TSC4: Powder Coated Cold Rolled/Hot Rolled Steel Terminal Enclosure

TSC4X: Brushed Finish Stainless Steel 304 Terminal Enclosure

TSC4X6: Brushed Finish Stainless Steel 316 Terminal Enclosure

II - Enclosure Length

XX: Any two digit number that indicates the outside box length (in inches) (max. 82.7 in. (2100 mm))

III – Enclosure Width

XX: Any two digit number that indicates the outside box width (in inches) (max 39.4 in (1000 mm))

IV - Enclosure Depth

XX: Any two digit number that indicates the outside box depth (in inches) (max. 16 in. (406 mm))

V- Components

U: Empty Enclosure. No Components Installed

VI – EMC Shielding

-EMC: EMC gasket installed on cover

*EMC shielding option not available with gland plates or TSC4 series enclosures.

VII - Gland Plate Location(s) *

-A: Gland plate installed on top of box

-B: Gland plate installed on bottom of box

-C: Gland plate installed on left side of box

-D: Gland plate installed on right side of box

-E: Gland plate installed on back side of box

*Omit dashes when multiple gland plates are installed. EMC shielding option not available with gland plates.

VIII – Adalet Assembly Part Number

XXXX: Any four digit alpha-numeric characters

Temperature range

The ambient temperature range is: $-50^{\circ}\text{C} \leq T_{amb} \leq +70^{\circ}\text{C}$ for the Rodgers Corp HT 805 silicone rubber gasket

The ambient temperature range is: $-20^{\circ}\text{C} \leq T_{amb} \leq +70^{\circ}\text{C}$ for the RAKU-SIL 12-S 10/1-7 pour in place gasket.

Installation instructions

- All cable entry devices shall be certified for the following protection methods 'e' and 'tb' and have a minimum IP 66 rating, suitable for the conditions of use and correctly installed.
- Unused apertures shall be closed with suitable blanking elements.

Mounting instructions

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

Routine tests

No routine tests are required.

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Descriptive Documents

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

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Schedule of limitations:

- This certification applies to equipment without cable/conduit entries. When installing cable or conduit entries, the cable/conduit entries must be certified for protection types 'e' and 'tb', and must have a minimum IP66 rating.
- Installation of conduit openings/cable glands must be in accordance with the drawing DS545M.
- The gaskets used in this device are suitable for a maximum temperature at the gasket of 110 °C.
- All unused device openings must be fitted with a certified close-up plug of protection types 'e' and 'tb' and must have a minimum IP 66 rating.
- The suitability of all entries should be considered in the end use application.

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Schedule

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- 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.

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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 TSC Series of empty enclosures 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 94/9/EC of the European Parliament and the Council of 23 March 1994.