

EU-TYPE EXAMINATION CERTIFICATE



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

[3] EU-Type Examination Certificate Number: **DEMKO 14 ATEX 7391121X Rev. 2**

[4] Product: **Polarization Cell Replacement Unit (PCRH)**

[5] Manufacturer: **Dairyland Electrical Industries Inc.**

[6] Address: **340 Business Park Circle, PO Box 187, Stoughton, WI 53589 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/ExTR14.0041/03**

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

EN IEC 60079-0:2018

EN 60079-1: 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 IIB T6 Gb

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: 2014-08-04

Re-issued: 2021-03-08

Notified Body

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

[14]

Schedule

EU-TYPE EXAMINATION CERTIFICATE No.

DEMKO 14 ATEX 7391121X Rev. 2

[15]

Description of Equipment or protective system

The Polarization Cell Replacement Unit (PCRH) is a solid-state DC isolation/AC grounding (or coupling) device designed for use in conjunction with cathodically protected equipment. It consists of an Ex certified enclosure with two feed thru assemblies that engage the sidewall of the enclosure and form a threaded joint. The feed thru assembly consists of a feed thru stud and feed thru insulating sleeve that are press fit into the feed thru shell engaging the enclosure to form a cylindrical joint. This feed thru provides the connection between the internal capacitor assembly and the external device being grounded/isolated.

Nomenclature:

<u>PCRH</u>	-	<u>3.7kA</u>	-	<u>S</u>	-	<u>ATEX</u>
I		II		III		IV

I – PCRH – Basic Catalog Number

II – AC Fault Current

3.7kA	-	3.7kA rating
5kA	-	5kA rating
10kA	-	10kA rating
15kA	-	15kA rating

III – Blocking Threshold

-S	-	-2/+2 V rating
blank	-	-3/+1 V rating

IV – Designates Hazardous Locations Rating (Optional)

(Blank) – Designation not detailed

IECEX – IECEX certification

ATEX – ATEX Certification

Temperature range

The ambient temperature range is -20°C to +60 °C.

Electrical data

Maximum steady state current rating: 45 A

Impulse Current Rating: 100kA, 8x20µs waveform

Routine tests

Routine tests according to EN 60079-1 cl. 16 are not required, as the enclosures have been successfully tested at four times the reference pressure.

[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:

- Contact Dairyland Electrical Industries for information on the dimensions of the flameproof joints.

[18]

Essential Health and Safety Requirements

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

Additional information



The trademark **DAIRYLAND ELECTRICAL INDUSTRIES** 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.

