

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 14 ATEX 7391121X Rev. 1**
- [4] Equipment or Protective System: **Polarization Cell Replacement Unit (PCRH)**
- [5] Manufacturer: **Dairyland Electrical Industries Inc.**
- [6] Address: **340 Business Park Circle, Stoughton, WI 53589 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. **4786649489-14ATEX7391121X**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2009 EN 60079-1:2007
- [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 IIB T6 Gb

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: 2014-08-04

Re-issued: 2014-12-21

Notified Body

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

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DEMKO 14 ATEX 7391121X Rev.1

Report: 4786649489-14ATEX7391121X

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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:

PCRH - 3.7kA - S - ATEX
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

IECEX – ATEX/IECEX certification

:

Temperature range

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

Electrical data

Maximum steady state current rating: 45 A

Installation instructions

No ongoing maintenance is required, as the device is designed to be maintenance free, and is of solid state construction with no moving, wearing or serviceable parts.

Mounting instructions

Refer to “PCRH Installation Instructions”

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.

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Documents:

Description:

PCRH UL Certified Drawing (9 sheets)

Installation Instructions

Drawing No.:

100000

1631

Rev. Level:

B-

B

Date:

2014-11-17

November 2014



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Specific conditions of use:

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

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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 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.

