

[1]

# TYPE EXAMINATION CERTIFICATE



[2]

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

[3]

Type Examination Certificate Number: **DEMKO 03 ATEX 135584X Rev. 7**

[4]

Product: **Polarization Cell Replacement Units, Model PCR Series**

[5]

Manufacturer: **Dairyland Electrical Industries Inc.**

[6]

Address: **340 Business Park Circle, PO Box 187, Stoughton, WI 53589 USA**

[7]

This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report no. **US/UL/ExTR14.0030/05.**

[9]

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

**EN IEC 60079-0:2018**

**EN IEC 60079-7: 2015 +A1:2018**

except in respect of those requirements listed at item 18 of the Schedule.

[10]

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

[11]

This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

[12]

The marking of the product shall include the following:

 **II 3 G Ex ec IIC T4 Gc**

**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: 2003-12-12**

**Re-issued: 2021-04-29**

**Certification Body**

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark  
Tel. +45 44 85 65 65, [info.dk@ul.com](mailto:info.dk@ul.com), [www.ul.com](http://www.ul.com)



## Schedule

### TYPE EXAMINATION CERTIFICATE No.

DEMKO 03 ATEX 135584X Rev. 7

[13]

[14]

[15] Description of Equipment:

These devices are intended to be used to provide AC grounding and DC blocking for cathodic protection of underground pipelines and similar installation in potentially explosive atmospheres.

Polarization Cell Replacement Units (PCR):

Models PCR followed by -3.7kA, -5kA, -10kA, -15kA, may be followed by /80A, may be followed by -S, may be followed by -CS2.

Models PCR followed by -3.5kA, -5kA, -9kA, -14kA, may be followed by /70A, may be followed by -S, may be followed by -CS2.

Models PCR followed by -2.6kA, -5kA, -6.8kA or 10.5kA, may be followed by /44A, may be followed by -S, may be followed by -CS2.

PCR models have a dc blocking voltage of -3V/+1V.

PCR models can be provided with a -2V/+2V dc blocking voltage by adding a -S suffix to the model number.

PCR models PCR-3.7KA, PCR-3.5KA, and PCR-5KA can be provided with a dc blocking voltage of -4V/+1V or -6V/+1V by adding one of these blocking voltage choices as a suffix to a standard PCR model number (e.g. PCR-5KA-4/1).

Temperature range

The ambient temperature range is -45 °C to + 65 °C.

Electrical data

All model devices may have a surge current rating of 100 kA, 8x20µsec waveform.

Installation instructions

For ambient temperatures below -10 degree C and above +60 degree C use field wiring suitable for both minimum and maximum ambient temperature.

Routine tests

No routine testing is required.

[16]

Descriptive Documents

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

[17]

Special Conditions of Use:

- Plastic enclosures are to be cleaned or wiped only with a damp cloth.
- During installation the device should be handled and mounted in a location so that direct impact is minimized.

[18]

Essential Health and Safety Requirements

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

Additional information

Model PCR has in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529, Edition 2.1 + Corr. 1:2003 + Corr. 2:2007.

