



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx UL 14.0020X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 5 Issue 4 (2020-06-30)
Date of Issue: 2021-04-29 Issue 3 (2016-04-06)
Applicant: **Dairyland Electrical Industries Inc.** Issue 2 (2015-05-06)
340 Business Park Circle Issue 1 (2015-02-24)
PO Box 187 Issue 0 (2014-03-07)
Stoughton, WI 53589
United States of America
Equipment: **Polarization Cell Replacement Units, Model PCR Series**
Optional accessory:
Type of Protection: **Increased Safety "ec"**
Marking: Ex ec IIC T4 Gc
-45°C ≤ Ta ≤ +65°C

Approved for issue on behalf of the IECEx
Certification Body:

Katy A. Holdredge

Position:

Senior Staff Engineer

Signature:
(for printed version)

Date:

2021-04-29

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Date of issue: 2021-04-29

Issue No: 5

Manufacturer: **Dairyland Electrical Industries Inc.**
340 Business Park Circle
PO Box 187
Stoughton, WI 53589
United States of America

Additional manufacturing locations: **Dairyland Electrical Industries Inc.**
110 Memorial Drive
Pound, WI 54161
United States of America

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[US/UL/ExTR14.0030/00](#)
[US/UL/ExTR14.0030/03](#)

[US/UL/ExTR14.0030/01](#)
[US/UL/ExTR14.0030/04](#)

[US/UL/ExTR14.0030/02](#)
[US/UL/ExTR14.0030/05](#)

Quality Assessment Report:

[US/UL/QAR14.0006/04](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 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.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Revision of drawing to correct the enclosure cover.

Issue 2: Revisions to drawings.

Issue 3: The instructions and enclosure material were revised.

Issue 4: Standard update for 60079-0; changes to the internal construction and components; alternate securement method for the nameplate.

Issue 5: IEC 60079-15 standard is updated to IEC 60079-7, 5.1 Ed. Marking string on the label and instructions were revised to Ex ec IIC T4 Gc. Minor revisions made to the construction.

Annex:

[Annex to IECEx UL 14.0020X Issue 5.pdf](#)



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TYPE DESIGNATION

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

PARAMETERS RELATING TO THE SAFETY

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).

Electrical data

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

MARKING

Marking has to be readable and indelible; it has to include the following indications:

PCR

Decoupler for use in Hazardous Locations

Class I, Div. 2, Groups A, B, C, D & Zone 2, Group IIC

Model: E187183


Max. DC Blocking Voltage:

Steady-State AC Current:

Momentary AC Current:

Peak Impulse Current:

Ambient Temperature Range:




READ INSTALLATION INSTRUCTIONS

Dairyland Electrical Industries, Inc.

P.O. Box 187 Stoughton, WI 53589, U.S.A

www.dairyland.com

S/N:XXXXXXXX
01/2020



Enclosure: NEMA 4X, IP66

Negative (-) Polarity Positive (+)