



# 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](http://www.iecex.com)

Certificate No.: **IECEX UL 14.0021X** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 3 [Issue 2 \(2020-06-30\)](#)  
Date of Issue: 2021-06-29 [Issue 1 \(2016-04-07\)](#)  
[Issue 0 \(2014-03-07\)](#)  
Applicant: **Dairyland Electrical Industries Inc.**  
340 Business Park Circle  
PO Box 187  
Stoughton, WI 53589  
**United States of America**  
Equipment: **Overvoltage Protectors, Model series OVP2. Decouplers and Isolators, Model series SSD, GI, GD, GCMD, GMD,  
PCD and TSD**  
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:

**Lucy Frieders**

Position:

**Staff Engineer**

Signature:  
(for printed version)

Date:

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](http://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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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/ExTR14.0031/00](#)  
[US/UL/ExTR14.0031/03](#)

[US/UL/ExTR14.0031/01](#)

[US/UL/ExTR14.0031/02](#)

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 explosive atmospheres.

**Please see Annex for additional information.**

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

- Plastic enclosures are to be cleaned or wiped 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: The instructions and enclosure material were revised.

Issue 2: Standard update for 60079-0. Changes to the internal construction and components. Alternate securement method for the nameplate.

Issue 3: The 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 14.0021X Issue 3.pdf](#)



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## TYPE DESIGNATION AND PARAMETERS RELATING TO THE SAFETY

Nomenclature:

### **Overvoltage Protectors:**

Models OVP2, followed by 1/1, 1.5/1.5, 2/1, 2/2, 3/1, 4/1, followed by 1.2, may be followed by 75.

Models OVP2, followed by 1/1, 1.5/1.5, 2/1, 2/2, 3/1, 4/1, followed by 2.0, 3.7, or 5.0, may be followed by 100.

OVP2    2/1    2    100  
I            II        III        IV

I. Basic Model Series and device name  
OVP2 – Overvoltage protector

II. Designates Peak Blocking Voltage (Negative Peak/Positive Peak)

1/1	-	-1V/+1V
1.5/1.5	-	-1.5V/+1.5V
2/1	-	-2V/+1V
2/2	-	-2V/+2V
3/1	-	-3V/+1V
4/1	-	-4V/+1V

III. Designates AC Current Rating (rms)

1.2 - 1.2 kiloamperes  
2.0 - 2.0 kiloamperes  
3.7 - 3.7 kiloamperes  
5.0 - 5.0 kiloamperes

IV. Optional - Surge Current Rating

75 – 75 kA.  
100 – 100 kA.



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## Decouplers & Isolators:

Models SSD, GI, GD, GCMD, GMD, PCD or TSD followed by 1/1, 1.5/1.5, 2/1, 2/2, 3/1, 4/1, followed by 1.2, may be followed by 75.

Models SSD, GI, GD, GCMD, GMD, PCD or TSD followed by 1/1, 1.5/1.5, 2/1, 2/2, 3/1, 4/1, followed by 2.0, 3.7, or 5.0, may be followed by 100.

All decouplers and isolators are identical, except for the prefix number (SSD, GI, GD, GCMD, GMD, PCD or TSD). Model OVP2 devices are not provided with a capacitor. Model PCR, SSD, GI, GD, GCMD, GMD, PCD and TSD devices are provided with a capacitor.

<u>SSD</u>	<u>2/1</u>	<u>1.2</u>	<u>100</u>
I	II	III	IV

### I. Basic Model Series

- SSD – Solid state decoupler
- GI – Galvanic isolator
- GD – Galvanic decoupler
- GCMD – Gradient control mat decoupler
- GMD – Ground mat decoupler
- PCD – Pipeline casing decoupler
- TSD – Test station decoupler

### II. Designates Peak Blocking Voltage (Negative Peak/Positive Peak)

1/1	-	-1V/+1V
1.5/1.5	-	-1.5V/+1.5V
2/1	-	-2V/+1V
2/2	-	-2V/+2V
3/1	-	-3V/+1V
4/1	-	-4V/+1V

### III. Designates AC Current Rating (rms)

- 1.2 - 1.2 kiloamperes
- 2.0 - 2.0 kiloamperes
- 3.7 - 3.7 kiloamperes
- 5.0 - 5.0 kiloamperes

### VI. Optional - Surge Current Rating

75 – 75 kA

## Electrical data

All model devices may have a lightning surge current rating of 100 kA (8 x 20µs waveform).



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## MARKING

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

