



[1]

UNITED KINGDOM CONFORMITY ASSESSMENT
TYPE EXAMINATION CERTIFICATE

[2]

**Product or Protective System Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1**

[3]

Type Examination Certificate No.: **UL21UKEX2249X Rev. 0**

[4]

Product: **Overvoltage Protectors: Model OVP2
Decouplers & Isolators: Models SSD, GI, GD, GCMD, GMD, PCD and
TSD**

[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 (UK) Ltd 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 Schedule 1 of the Regulations. The examination and test results are recorded in the confidential report **UKRCC-4790055714.3**

[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 section 19 of the schedule to this certificate.

[10]

If the sign "X" is placed after the certificate number, it indicates that the product is subject to specific conditions of use specified in the schedule to this certificate.

[11]

This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12]

The marking of the product shall include the following:

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

Certification Manager
David Lloyd

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 Ex UK 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: 2021-11-25

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[14]

Schedule TYPE EXAMINATION CERTIFICATE No. UL21UKEX2249X Rev. 0

[15] Description of Product

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

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.

<u>OVP2</u>	<u>2/1</u>	<u>2</u>	<u>100</u>
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.

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



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[14]

Schedule TYPE EXAMINATION CERTIFICATE No. UL21UKEX2249X Rev. 0

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
- 100 – 100 kA.

Temperature range

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

Electrical data

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

None

[16]

Test Report No. (associated with this certificate issue)
US/UL/ExTR14.0031/03

[17]

Specific 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]

Conditions of certification:
None

[19]

Essential Health and Safety Requirements (Regulations Schedule 1)
In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

Additional information

Series OVP2, SSD, GI, GD, GCMD, GMD, PCD and TSD have in addition passed the tests for Ingress Protection to IP 68 in accordance with EN60529: 1991+A1:2000+A2:2013.

The manufacturer shall inform the approved body concerning all modifications to the technical documentation as described in Annex III to UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1.

[20]

Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
OVP2 ATEX/IECEX CERTIFIED DRAWING (4 Sheets)	100024	F	2021/06/21
SSD ATEX/IECEX CERTIFIED DRAWING (4 Sheets)	100025	G	2021/06/21
OVP2 UKCA CERTIFIED DRAWING (2 Sheets)	100024-UK	A	2021/10/29
SSD UKCA CERTIFIED DRAWING (2 Sheets)	100025-UK	A	2021/10/29

