



# 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 SIR 20.0045X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2021-04-20

Applicant: **Weidmüller Interface GmbH & Co. KG**  
Klingenbergrasse 26  
Detmold 32758  
Germany

Equipment: **PRO TOP Series Power Supplies, Type: PRO TOPDC 24V/24V 5A EX, PRO TOPDC 24V/24V 10A EX, PRO TOPDC 24V/24V 20A EX, PRO TOP2 120W 24V 5A UW EX, PRO TOP2 240W 24V 10A UW EX.**

Optional accessory:

Type of Protection: **Increased Safety "ec" and Type "nC"**

Marking: Ex ec nC IIC T4 Gc  
Ta = -40°C...+70°C

Approved for issue on behalf of the IECEx  
Certification Body:

**Neil Jones**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:

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\_\_\_\_\_

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.
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**SIRA Certification Service**  
**CSA Group**  
**Unit 6, Hawarden Industrial Park**  
**Hawarden, Deeside, CH5 3US**  
**United Kingdom**





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Page 2 of 3

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Manufacturer: **Weidmüller Interface GmbH & Co. KG**  
Klingenbergstrasse 26  
Detmold 32758  
**Germany**

Additional  
manufacturing  
locations:

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 60079-15:2017** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:5.0

**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 Report:

[GB/SIR/ExTR21.0031/00](#)

Quality Assessment Report:

[NL/DEK/QAR12.0052/07](#)



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Page 3 of 3

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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The PRO TOP series Power Supplies are assessed for type of protection "increase safety" Ex ec and include a sealed device (relay) with type of protection Ex nC. They include PRO TOPDC series which are designed for connection to DC network and PRO TOP2 series connected to AC network.

The switching power supply is EPL Gc intended for use in Explosive Atmosphere classified as Zone 2.

The PRO TOP series power supplies are built-in device with degree of protection IP20. The enclosure is made of hot galvanized sheet and the front panel has two LEDs, an on/off switch and a potentiometer which cannot be adjusted unless area is known to be non-hazardous. There are several PCBs within the enclosure and they have functions of output over-current protection, output over-voltage protection, output short circuit protection etc.

A communication device, model PRO COM CAN OPEN EX, is optional for the PRO TOP series Power Supply. When it is used, it will be installed in a suitable certified enclosure together with the PRO TOP series Power Supply. The requirements are valid for "Single power supply" and "Single power supply with the communication device (PRO COM CAN OPEN EX)".

Refer to Annexe for additional information.

## Conditions of Manufacture

The Manufacturer shall comply with the following:

Routine tests on production. At the conclusion of manufacture, and before shipping, each unit shall be subjected to a dielectric strength test.

a. For models PRO TOPDC 24V24V 5A EX, PRO TOPDC 24V24V 10A EX and PRO TOPDC 24V24V 20A EX, a potential of 500V ac r.m.s. should be applied between its all terminals and the metal enclosure, for a period of at least 60 seconds, without breakdown.

### Notes:

1. A potential of 700V dc may alternatively be applied for a period of at least 60 seconds.
2. As an alternative, a test shall be carried out at 1.2 times the test voltage, but maintained for at least 100ms.

b. For models PRO TOP2 120W 24V 5A UW EX and PRO TOP2 240W 24V 10A UW EX, a potential of 2000V ac r.m.s. between input terminals and the metal enclosure, and a potential of 500Vac r.m.s. between other terminals and the metal enclosure for a period of at least 60 seconds, without breakdown.

### Notes:

1. A potential of 2800V dc may alternatively be applied for a period of at least 60 seconds.
2. As an alternative, a test shall be carried out at 1.2 times the test voltage, but maintained for at least 100ms.

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

1. The equipment shall be mounted within a tool-secured suitably-certified enclosure providing a degree of protection not less than IP54 in accordance with IEC 60079-0 and IEC 60079-7.
2. When in use, do not adjust the switch and Potentiometer unless the area is known to be non-hazardous.

## Annex:

[IECEx SIR 20.0045X Annexe Issue 0.pdf](#)

Annexe to: IECEx SIR 20.0045X Issue 0

Applicant: Weidmüller Interface GmbH & Co. KG

Apparatus: PRO TOP Series Power Supplies



Model	Input			Output		Temperature
	V	Hz	A	VDC	A	
PRO TOPDC 24V/24V 5A EX	24 VDC	-	5.7	24	5	-40°C...+60°C, +60°C...+70°C (Derating:2.5%/K)
PRO TOPDC 24V/24V 10A EX	24 VDC	-	11	24	10	-40°C...+60°C, +60°C...+70°C (Derating:2.5%/K)
PRO TOPDC 24V/24V 20A EX	24 VDC	-	22	24	20	-40°C...+60°C, +60°C...+70°C (Derating:2.5%/K)
PRO TOP2 120W 24V 5A UW EX	100~240 VAC	50-60	2.0-1.0	24	5	-40°C...+60°C, +60°C...+70°C (Derating:2.5%/K)
	Y 230/400-500VAC, 2W+PE	50-60	0.7-0.5			
PRO TOP2 240W 24V 10A UW EX	100~240 VAC	50-60	3-1.3	24	10	-40°C...+60°C, +60°C...+70°C (Derating:2.5%/K)
	Y 230/400-500VAC, 2W+PE	50-60	1.4-0.8			