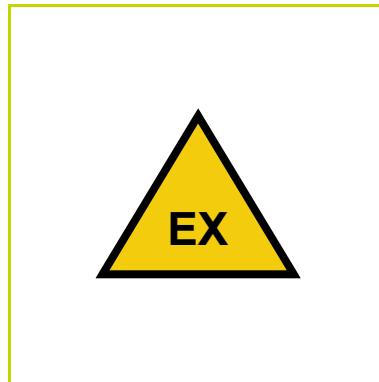


EX CERTIFICATE – IECEx


TPS 18.0009X
for
APF202 24 V_{DC} 5 A power supply



Note: Although the Ex certificate may be included in more than one language, the liability of the notified body applies only on the text of the original copy of the certificate that it published.

Document reference TPS 18.0009X
Edition 2 – June 2021

THIS PAGE INTENTIONALLY LEFT BLANK



IECEX Certificate of Conformity

Page 2 of 4
Issue No: 2

Certificate No.: **IECEX TPS 18.0009X**
Date of issue: 2021-03-26

Manufacturer: **Weidmüller Interface GmbH & Co. KG**
Klingenbergstr. 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 Reports: **DE/TPS/EXTR18.0016/00** **DE/TPS/EXTR18.0016/01** **DE/TPS/EXTR18.0016/02**
NL/DEK/QAR12.0052/06 **NL/DEK/QAR12.0052/07**



IECEX Certificate of Conformity

Page 1 of 4
Issue No: 2

Certificate No.: **IECEX TPS 18.0009X**
Status: **Current**
Date of Issue: 2021-03-26
Applicant: **Weidmüller Interface GmbH & Co. KG**
Klingenbergstr. 26
Detmold 32758
Germany

Equipment: **Switching Power Supply, model: PRO TOP1 120W 24V 5A EX, PRO TOP1 120W 12V 10A EX**

Optional accessory: COM communication module: PRO COM CAN OPEN EX

Type of Protection: **Increased safety "e", Type of protection "n"**

Marking: Ex ec nC IIC T4 Gc

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres
for rules and details of the IECEx Scheme visit www.iecex.com

Certificate history:
Issue 1 (2020-04-20)
Issue 0 (2019-03-04)

Approved for issue on behalf of the IECEx Certification Body:

Position: **Ing. Kristof De Gerssem, MSc.**
Technical Certifier



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 or use of this QR Code.




Certificate issued by:
TUV SUD Product Service GmbH
Ridlerstr. 65
D-80339 Munich
Germany



IECEx Certificate of Conformity

Page 4 of 4
Issue No: 2

Certificate No.: **IECEx TPS 18.0009X**

Date of issue: 2021-03-26

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
 Revise "Specific Conditions of Use"

IECEx Certificate of Conformity

Page 3 of 4
Issue No: 2

Certificate No.: **IECEx TPS 18.0009X**

Date of issue: 2021-03-26

EQUIPMENT:
 Equipment and systems covered by this Certificate are as follows:

The Switching Power Supply is EPL Gc equipment intended for use in Explosive Atmospheres classified as Zone 2.

The equipment is protected by Ex "ec" and the relay inside is protected by Ex "nC" sealed device. It's a well performance AC-DC module with one-phase input and single output. It has functions such as output over-current protection, output overvoltage protection, output short circuit protection, and parallel connection and so on, with well combined regulation and high efficiency. The requirements are valid for "Single Device" and the "Single device together with COM communication module (PRO COM CAN OPEN EX)".

Transient protection function is intergated in the equipment.

There are two models:
 PRO TOP1 120W 24V 5A EX, PRO TOP1 120W 12V 10A EX

Rating:
 Input voltage is 100 to 240V a.c.
 Operational voltage are 12, 24V d.c.
 Rated ambient temperature range: -40°C to +60°C, -40°C to +70°C (derating applicable)

Model difference:
 PRO TOP1 120W 24V 5A EX: input 2A max., output 5A, when ambient temperature between +60°C and +70°C, power derating off 2.5%/K is required.
 PRO TOP1 120W 12V 10A EX: input 2A max., output: 10A, when ambient temperature between +60°C and +70°C, power derating off 2.5%/K is required.

Routine test:
 100% routing test has to be done by manufacturer.

Dielectric strength test:
 1. 1500V a.c./1min or 1800V a.c./100ms between input terminal and enclosure
 2. 500V a.c./1min or 600V a.c./100ms between output terminal and enclosure
 No breakdown shall occur.

Warning mark:
 None.

SPECIFIC CONDITIONS OF USE: YES as shown below:
 1. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
 2. The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with IEC 60079-0.
 3. The equipment shall be installed according to IEC 60079-14.
 4. The ambient temperature (T_{amb}) as specified above, has to be seen as the temperature of the surrounding atmosphere where the equipment is installed at (=Operating temperature).
 5. Power derating off 2.5%/K is required when ambient temperature between +60°C and +70°C.