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 ULD 20.0020X**

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Certificate history:
Issue 0 (2020-09-30)

Status: **Current**

Issue No: 1

Date of Issue: 2021-04-30

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

Equipment: **Universal Converter - ACT20P-Pro DCDC II-S, ACT20P-Pro DCDC II-P , ACT20P-Pro DCDC II-24-S, ACT20P-Pro DCDC II-24-P**

Optional accessory:

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

Marking: Ex ec IIC T4 Gc

-25ºC < Ta < +70ºC

Approved for issue on behalf of the IECEx Certification Body: **David Lloyd**

Position: **Engineering Leader**

Signature: (for printed version)

Date: 2021-04-30

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 International DEMKO A/S
Borupvang 5A
DK-2750 Ballerup
Denmark

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

Additional manufacturing locations: **Weidmüller Interface GmbH & Co. KG**
Klingenbergstrasse 16
32758 Detmold
Germany

PR Electronics A/S
Lerbakken 10
8410 Rønde
Denmark

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:

DK/ULD/ExTR20.0020/00 DK/ULD/ExTR20.0020/01

Quality Assessment Reports:

NL/DEK/QAR12.0052/07 NL/DEK/QAR13.0017/04

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

Universally configurable DC isolating amplifier ACT20P-PRO DCDC II-S, ACT20P-Pro DCDC II-P, ACT20P-Pro DCDC II-24-S and ACT20P-Pro DCDC II-24-P for isolation and conversion of analogue signals.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- This equipment shall be mounted in an IECEx certified enclosure with a minimum ingress protection rating of at least IP54 (as defined in IEC 60079-0) and used in an environment of not more than Pollution Degree 2 (as defined in IEC 60664-1) when applied in Zone 2 environments. The enclosure must be accessible only by the use of a tool.
- For Ex installation with supply voltages greater than 60 V AC or 85 V DC, provisions must be made external to the supply terminals to provide a transient protection of 140 % of the supplied peak voltage, suitable for the application and voltage involved.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1: Addition of models ACT20P-Pro DCDC II-24-S and ACT20P-Pro DCDC II-24-P. Update to documentation not related to IECEx/ATEX certification.

Annex:

Annex to IECEx ULD 20.0020 Issue 1.pdf

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PARAMETERS RELATING TO THE SAFETY

Models ACT20P-Pro DCDC II-S and ACT20P-Pro DCDC II-P

Power supply input voltage:	24-230 Vdc ± 20% 24-230 Vac ± 10% @ 48-62 Hz
Power consumption:	2.5 W, 2.0 VA
Input signal ratings:	±40 mV to ±300 Vdc, ±0.2 to ±100 mA
Output voltage/current:	28 V, 28 mA

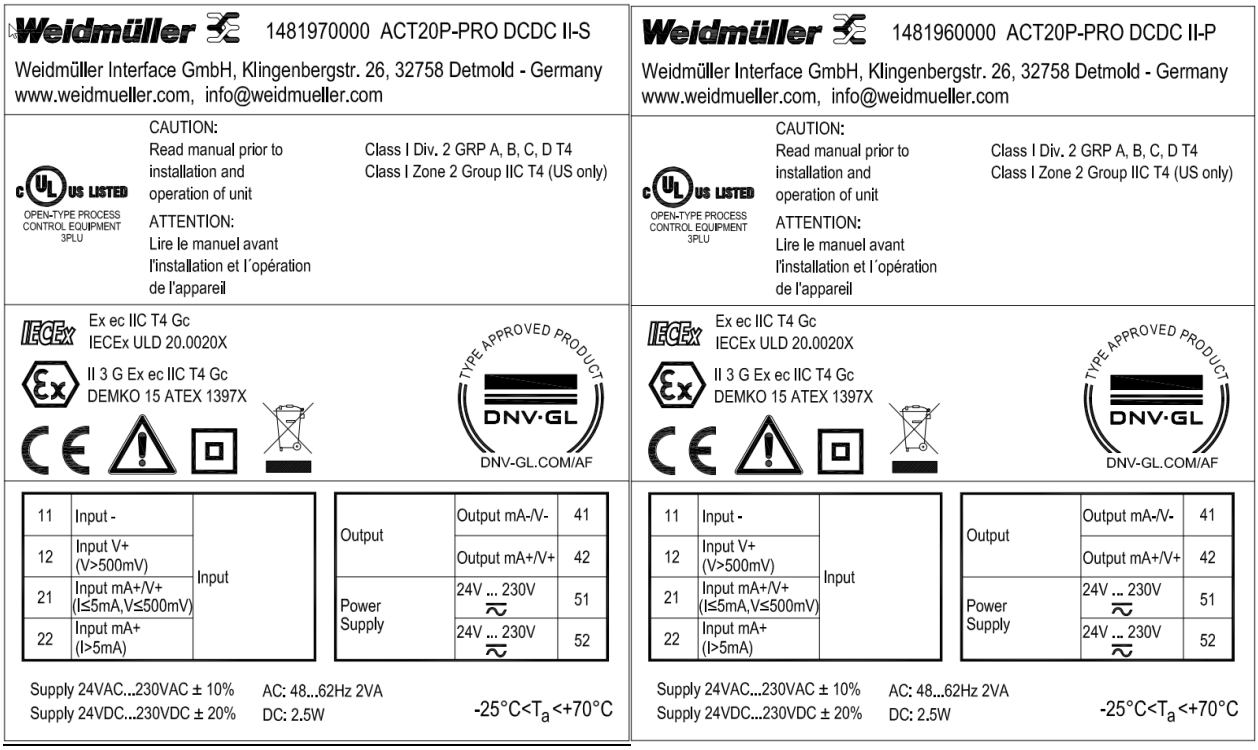
Models ACT20P-Pro DCDC II-24-S and ACT20P-Pro DCDC II-24-P

Power supply input voltage:	24 Vdc -20%/+30%
Power consumption:	2.5 W
Input signal ratings:	±40 mV to ±300 Vdc, ±0.2 to ±100mA
Output voltage/current:	28 V, 28 mA

MARKING

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

Models ACT20P-Pro DCDC II-S and ACT20P-Pro DCDC II-P



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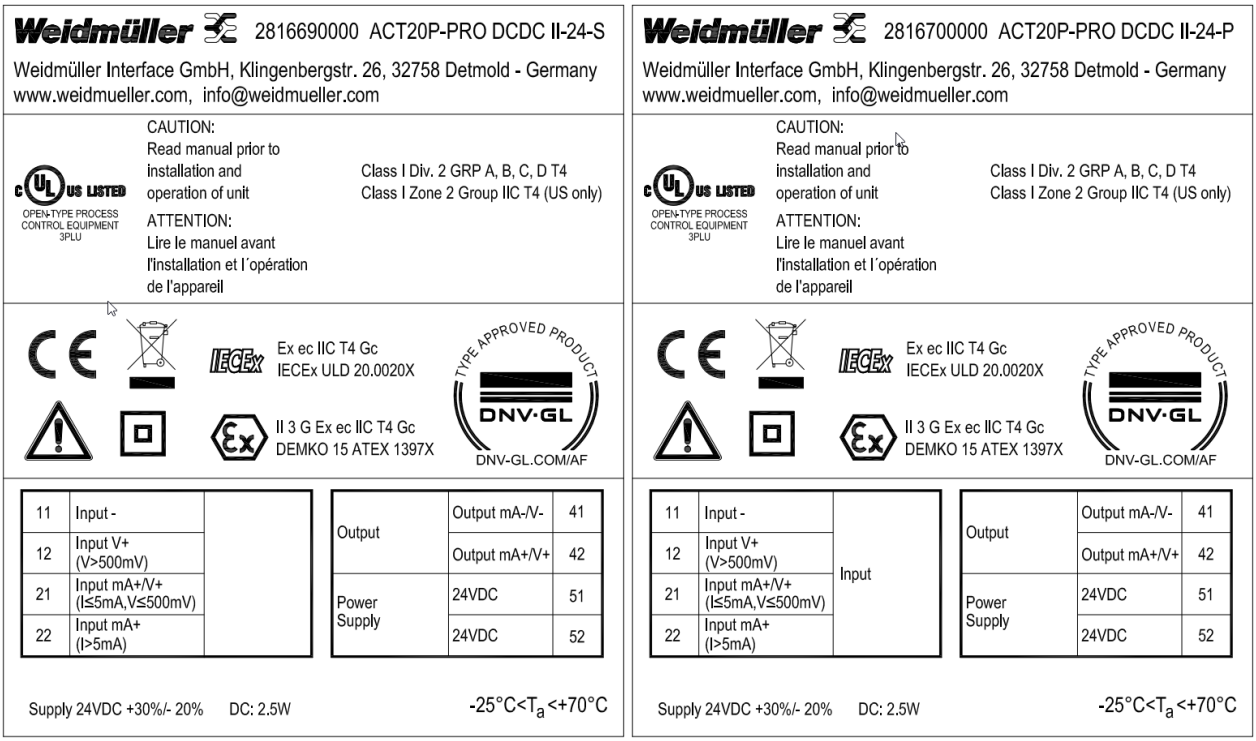
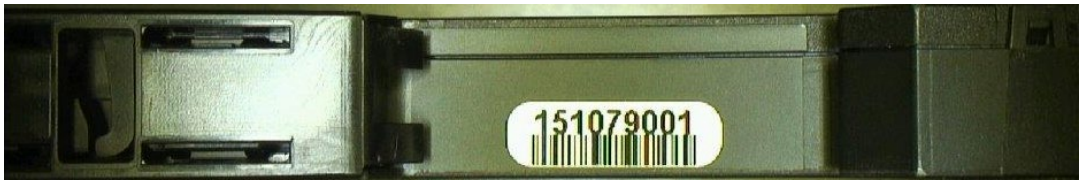
Models ACT20P-Pro DCDC II-24-S and ACT20P-Pro DCDC II-24-P



Example of Serial Number / Date of Manufacture label



Serial Number Marking. YYBBBBSSS	
YY	Year of manufacture
BBBB	Batch number
SSS	Sequential number

ROUTINE EXAMINATIONS AND TESTS

Each pieces of equipment defined above has to have successfully passed; before delivery:

Routine electric strength test shall be conducted:

- from terminals 51-52 to all terminals for 1860 Vrms or 2630 Vdc for 60 seconds, or alternatively at 2232 Vrms or 3156Vdc for 100 ms.
- from terminals 11/12/21/22 to all terminals for 1600 Vrms or 2262 Vdc for 60 seconds or alternatively 1920Vrms or 2714 Vdc for 100 ms.