

TYPE EXAMINATION CERTIFICATE



Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

Type Examination Certificate Number: : **DEMKO 15 ATEX 1397X Rev. 5**

Product: **Universal Converter – Model ACT20P-PRO DCDC II-S, Model ACT20P-PRO DCDC II-P, Model ACT20P-PRO DCDC II-24-S and Model ACT20P-PRO DCDC II-24-P**

Manufacturer: **Weidmuller Interface GmbH & Co. KG.**

Address: **Klingenbergstrasse 26, 32758 Detmold, Germany**

This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

UL International Demko A/S 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 Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report no. **DK/ULD/ExTR20.0020/01.**

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 item 18 of the Schedule.

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

The marking of the product shall include the following:

II 3 G Ex ec IIC T4 Gc

Certification Manager
Jan-Erik Storgaard

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 ATEX 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: 2015-08-04

Re-issued: 2021-04-30

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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Schedule
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Description of Product:

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.

Performance testing

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1.) to the scope of EN 60079-28:2015.

Temperature range:

The ambient temperature range is $-25^{\circ}\text{C} < T_a < +70^{\circ}\text{C}$ with an assigned temperature Class of T4.

Electrical data

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

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

Routine tests:

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

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Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this Type Examination Certificate.

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Special Conditions of Use:

- This equipment shall be mounted in an ATEX certified enclosure with a minimum ingress protection rating of at least IP54 (as defined in EN 60079-0) and used in an environment of not more than Pollution Degree 2 (as defined in EN 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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Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

The trademark **Weidmüller** 

will be used as the company identifier on the marking label.