

TYPE EXAMINATION CERTIFICATE



- [2] **Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 2014/34/EU**
- [3] Type Examination Certificate Number: **DEMKO 18 ATEX 1861X Rev. 1**
- [4] Product: **Analogue Signal Converter Isolator, Model ACT20P Series**
- [5] Manufacturer: **Weidmüller Interface GmbH & Co. KG**
- [6] Address: **Klingenbergstrasse 16, 32758 Detmold, Germany**
- [7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] 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. **4788506485.4.1**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN IEC 60079-0:2018 EN 60079-7: 2015 +A1:2018**
- except in respect of those requirements listed at item 18 of the Schedule.
- [10] 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.
- [11] This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.
- [12] The marking of the product shall include the following:

 **II 3 G Ex ec IIC T5 Gc**

Certification Manager
Jan-Erik Storgaard



Certification Body

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: 2018-12-21

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UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com



Schedule

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Description of Product:

These devices are considered Open-Type Analogue Signal Converter, which can connect with 2- or 3- wire transmitter or current source signal. The input and output circuits and the voltage supply are completely electrically isolated. The input signal is converted into a DC current or voltage value. These units do not have a complete electrical enclosure and are to be installed in Industrial Control Equipment in the final installation.

Nomenclature for type ACT20P Series:

ACT20P	-	2CI	-	2CO	-	12	-	P	-	S
1		2		3		4		5		6

1: Product series:
ACT20P

2: Input signal:
CI: Type with one channel of current input signal
2CI: Type with two channels of current input signal

3: Output signal:
CO: type with one channel of current output signal
2CO: type with two channels of current output signal
VO: type with one channel of voltage output signal

4: Variants Width:
Blank: 12.5mm width, for models except for ACT20P-2CI-2CO series
12: 12.5mm width, only for ACT20P-2CI-2CO series

5: Din rail bus power connector:
Blank: Normal type
P: Type support Din rail bus power connector

6: Input/Output connector type:
S: Type with screw connector
P: Type with push-in connector

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 -20 °C to +60 °C.

Electrical data

Cat. No.	Supply	Input		Output	
		Current Range	Signal input	Voltage	Current
ACT20P-CI-VO-S ACT20P-CI-VO-P ACT20P-CI-VO-P-S ACT20P-CI-VO-P-P	20-30 V dc, 60 mA	0~20 mA or 4~20 mA	2- or 3-wire transmitter, current source	0~10 V or 2~10 V	-
ACT20P-CI-CO-S ACT20P-CI-CO-P ACT20P-CI-CO-P-S ACT20P-CI-CO-P-P	20-30 V dc, 60 mA	0~20 mA or 4~20 mA	2- or 3-wire transmitter, current source	-	0~20 mA or 4~20 mA
ACT20P-CI-2CO-S ACT20P-CI-2CO-P ACT20P-CI-2CO-P-S ACT20P-CI-2CO-P-P	20-30 V dc, 75 mA	0~20 mA or 4~20 mA	2- or 3-wire transmitter, current source	-	0~20 mA or 4~20 mA
ACT20P-2CI-2CO-12-S ACT20P-2CI-2CO-12-P ACT20P-2CI-2CO-12-P-S ACT20P-2CI-2CO-12-P-P	20-30 V dc, 100 mA	0~20 mA or 4~20 mA	current source	-	0~20 mA or 4~20 mA

Routine tests:

N/A

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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.

Schedule

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[17] Special Conditions of Use:


- The equipment shall be installed in an enclosure that provides a degree of protection not less than IP 54 in accordance with EN 60079-0.
- The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 60664-1.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment

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Essential Health and Safety Requirements

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

Additional information

The trademark **Weidmüller**  will be used as the company identifier on the marking label.