

TYPE EXAMINATION CERTIFICATE



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

Type Examination Certificate Number: **DEMKO 18 ATEX 2097X Rev. 1**

Product: **Open-Type Analogue Temperature Monitor, Models ACT20P-TMR-RTI-S and ACT20P-TMR-RTI-P.**

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

Address: **Klingenbergstrasse 16, 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. **4788506485.3.1**

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**
EN 60079-15: 2010 (IEC 60079-15, 5th Edition)

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 nC IIC T5 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: 2018-12-19

Re-issued: 2019-03-24

Certification Body

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



Schedule

TYPE EXAMINATION CERTIFICATE No.

DEMKO 18 ATEX 2097X Rev. 1

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Description of Product:

This device is an Analog temperature monitor, which contains two relay outputs, and a PTC sensor or PT100 input terminal blocks. When the PT100 or PTC sensor's input temperature is over-temperature or under-temperature, the relay output changes. These units do not have a complete electrical enclosure and must be placed into a separate enclosure in the final installation.

Nomenclature for type ACT20P-TMR-RTI-S and ACT20P-TMR-RTI-P:

ACT20P	-	TMR	-	RTI	-	S
1		2		3		4

1: Product series

- ACT20P

2: Product function: Temperature Monitor and Relay output

- TMR

3: Input signal type: Pt100 sensor or PTC sensor

- RTI

4: Connection type: Screw or Push-In

- S: Screw connection

- P: Push-In connection

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 $-25\text{ °C} \leq T_{amb} \leq +65\text{ °C}$

Electrical data

Power input: 24~240 V ac/ V dc, 40~60Hz, Max. 2.2 W

Signal input: PT100/PTC sensor

Relay Output: 250 V ac, 5 A

Routine tests:

A dielectric strength routine test is required in accordance with EN 60079-15, clause 6.2. Alternatively, test shall be carried out at 1.2 times the test voltage, but shall be maintained for at least 100ms.

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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:

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.

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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.