



# 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](http://www.iecex.com)

Certificate No.: **IECEx UL 18.0100X** Page 1 of 3 [Certificate history](#)

Status: **Current** Issue No: 0

Date of Issue: 2019-03-24

Applicant: **Weidmüller Interface GmbH & Co. KG**  
Klingenbergrasse 16  
32758 Detmold  
Germany

Equipment: **Analogue temperature monitors, ACT20P-TMR-RTI-S and ACT20P-TMR-RTI-P**

Optional accessory:

Type of Protection: **Increased Safety "ec", Hermetically-sealed "nC"**

Marking: Ex ec nC IIC T5 Gc  
-25 °C ≤ Tamb ≤ +65 °C

Approved for issue on behalf of the IECEx  
Certification Body:

**Erin LaRocco**

Position:

**Staff Engineer**

Signature:  
(for printed version)

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Date:

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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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**UL LLC**  
333 Pfingsten Road  
Northbrook IL 60062-2096  
United States of America





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Manufacturer: **Weidmüller Interface GmbH & Co. KG**  
Klingenbergrasse 16  
32758 Detmold  
**Germany**

Additional manufacturing locations: **Shanghai Chenzhu Instrument Co., Ltd**  
Floor 7-8  
Building 6, No. 201  
Minyi Road  
Songjiang District  
Shanghai, 201612 P.R.  
**China**

**Weidmüller Interface (Shanghai) Co., Ltd.**  
63A No. 101 HanCheng Rd.  
Free Trade Zone  
Shanghai, 200131 P.R.  
**China**

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 Report:

[US/UL/ExTR18.0113/01](#)

Quality Assessment Reports:

[CN/CQM/QAR10.0001/05](#)

[CN/NEP/QAR18.0011/00](#)

[NL/DEK/QAR12.0052/06](#)



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**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

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.

**Please see Annex for additional information.**

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with IEC 60079-0.

**Annex:**

[Annex to IECEx UL 18.0100X Issue 0.pdf](#)



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## TYPE DESIGNATION

Nomenclature for type Models 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

## PARAMETERS RELATING TO THE SAFETY

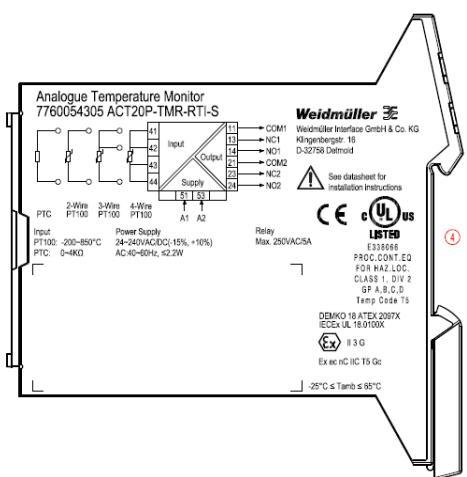
Power input: 24~240 V ac/ V dc, ,40~60Hz, Max. 2.2 W

Signal input: PT100/PTC sensor

Relay Output: 250 V ac, 5 A

## MARKING

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





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## ROUTINE EXAMINATIONS AND TESTS

A dielectric strength routine test is required in accordance with IEC 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.