



Certificate No:  
**TAA000037Z**

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Measurement Converter**

with type designation(s)

**ACT20P-PRO RTC(I)-AO-DO(S)-S/-P (RTD), ACT20P-PRO FI-AO-DO(S)-S/-P (Frequency)**

Issued to

**Weidmüller Interface GmbH & Co. KG**  
**Detmold, Germany**

is found to comply with

**DNV rules for classification – Ships, offshore units, and high speed and light craft**

## Application :

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.**

### Location classes:

Type	Temperature	Humidity	Vibration	EMC	Enclosure
<b>ACT20P-PRO RTC(I)-AO-DO(S)-S/-P (RTD)</b>	<b>D</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>A</b>
<b>ACT20P-PRO FI-AO-DO(S)-S/-P (Frequency)</b>	<b>D</b>	<b>B</b>	<b>B</b>	<b>A</b>	<b>A</b>

Issued at **Hamburg** on **2023-03-14**

This Certificate is valid until **2028-03-13**.

for **DNV**

DNV local unit: **Hamburg – CMC North/East**

Approval Engineer: **Dariusz Lesniewski**

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**Joannis Papanuskas**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.  
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2022-09

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## Product description

**ACT20P-PRO-RTC(I)-AO-DO(S)-S/-P** universal, configurable temperature transducer

Housing width: 12,5mm

Power supply: 24V... 230V DC, 48V...230V AC

Input: R, RTD, Pot, TC, V

Output (analog): voltage  $\pm 10V$  configurable  
current  $\pm 20mA$  configurable

Output (digital): NPN

Configuration: display

Connection terminals: -S screw, -P push in

(I), (O): SIL variants (optional)

**ACT20P-PRO-FI-AO-DO(S)-S/-P** universal frequency converter

Housing width: 12,5mm

Power supply: 24V UC to 230V UC

Input: Namur initiator, mechanical switches, 2-, 3-wire NPN/PNP, PWM, encoders, push-pull step, frequency generator

Frequency range: (0 Hz) 10 Hz...150KHz

Output (analog): voltage  $\pm 10V$  configurable  
current  $\pm 20mA$  configurable

Output (digital): NPN

Configuration: display

Connection terminals: -S screw, -P push in

(I), (O): SIL variants (optional)

## Place of manufacture

## Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

## Application/Limitation

A shielded cable has to be used for the output signal. The shield has to be earthed on both sides.

## Type Approval documentation

### Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021.

### Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

### Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.



END OF CERTIFICATE

Job Id: **262.1-035664-1**  
Certificate No: **TAA000037Z**