

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electrical Equipment

with type designation(s)
WAVE TTA Analog Signal Transmitter and Trip Amplifier

Issued to

Weidmüller Interface GmbH & Co. KG
Detmold, Germany

is found to comply with
DNV GL 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 GL.

Issued at **Hamburg** on **2019-01-07**

for **DNV GL**

This Certificate is valid until **2024-01-06**.

DNV GL local station: **Essen**

Approval Engineer: **Harald Amberger**

Arne Schaarmann
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.



Product description

WAVE TTA Analog Signal Transmitter and Trip Amplifier

Input Signal: -200 mV ~ 600 mV (min. span 4 mV)
-20 V ~ +50 V (min. span 0.5 V)
-20 mA ~ 50 mA (min. span 1 mA)
Current loop supply: +24 V
Thermocouple type: B, E, J, K, L, N, R, S, T
RTD 2, 3, 4 wire / R / Potentiometer
Frequency: 2 Hz ~ 100 kHz.

Analogue Output: 0 ~ 5 V, 1 ~ 5 V, 0 ~ 10 V, or span-settable between
-10 ~ +10 V (min. span 2.5 V)
0 ~ 20 mA, 4 ~ 20 mA or span-settable between
0 ~ 20 mA (min. span 1 mA)

Digital Output: 2 x SPCO; max. 250 V AC / 3 A max. 30 V DC / 2 A

Power supply: 24 ~ 240 V AC / DC, -25 % ~ 10 %

Rated isolation voltage: 300 V, for overvoltage category III and pollution degree 2

Degree of protection: IP20

Connection: Screw-type WAS6 TTA, Tension clamp WAZ6 TTA.

Application / Limitation

Location Classes:
Temperature: B, Humidity: B, Vibration: A, EMC: B

Operating instruction of the manufacturer to be observed

Type Approval documentation

As per tech.-docs. in NPS 262.1-029998-1

Tests carried out

Cold, dry heat, damp heat, vibration, flame retardancy and EMC.

Marking of product

Weidmüller - Type designation - Main data.



Job Id: **262.1-029998-1**
Certificate No: **TAE000039Y**

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and 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