

TYPE APPROVAL CERTIFICATE

Certificate no.: **TAA00001DT**Revision No: 3

This is to cer	rtify:	
that the Temper	rature Transmitter	
with type design. Temperature Fi	ation(s) eld Transmitter iTEMP® TMT162	
	Hauser Wetzer GmbH+Co. KG , Bayern, Germany	
is found to comp DNV rules for	lly with classification – Ships, offshore units, and high speed and light cra	aft
Application:		
Product(s) appr	roved by this certificate is/are accepted for installation on all vess	els classed by DNV.
Location classe Temperature Humidity Vibration EMC Enclosure	es: D B B B Required protection according to DNV Rules	
	s valid until 2029-03-21 .	for DNV

Form code: TA 251

Approval Engineer: Heinz Scheffler

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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.



Job ID: **262.1-026350-6** Certificate no.: **TAA00001DT**

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Product description

TMT162: Electronic monitoring, conversion and display of input signals for temperature measurement.

Power supply	rated 24V DC (11 42V DC, Ex 11 30V DC)	
Inputs (2x)	RTD (temperature) TC (voltage) Ohm (resistance)	
Output	4 20mA / 20 4mA Analogue 2-wire HART® signal (HART® communication via transmitter power supply, e.g. RN221N)	
Display	LC-display, illuminated, rotatable in 90°	
Mounting	remote mounting using mounting bracket	
Housing material	Aluminium Stainless steel	
Cable entries	2 x NPT ½ 2 x M20x1.5	

Application/Limitation

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 Ships Pt.4 Ch.9 Control and Monitoring Systems.

The installation instructions according to the Technical Instruction are to be observed.

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex-Certificates issued by a notified / recognized Certification Body.

Type Approval documentation

Test Report and Document: List of Test Reports and Documents TAA00001DT, Rev.1

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
- device name
- serial number

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

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