DNV·GL

Certificate No:
TAA000027W

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Temperature Transmitter

with type designation(s)
iTEMP TMT82 DIN rail transmitter, iTEMP TMT82 head transmitter

Issued to
Endress+Hauser Wetzer GmbH & Co. KG
Nesselwang, 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.

Location classes:

Type	Temperature	Humidity	Vibration	EMC	Enclosure
iTEMP TMT82 DIN rail transmitter	D	B	A	B	A
iTEMP TMT82 head transmitter	D	B	B	B	C

Issued at **Hamburg** on **2019-02-26**
This Certificate is valid until **2024-02-25**.
DNV GL local station: **Augsburg**

Approval Engineer: **Dariusz Lesniewski**

for **DNV GL**

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.

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Job Id: **262.1-028290-1**
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Product description

Temperature transmitter programmable via HART-Protocol.

Power supply:	Head transmitter: 11…42V DC (11…30V DC Ex i version) DIN rail transmitter: 12…42V DC (12…30V DC Ex i version)
Input:	Resistance thermometers (RTD), Thermocouples (TC), Resistance transmitters (Ohm), Voltage transmitters (mV)
Output:	4…20mA analogue, 2-wire
Mounting:	Head transmitter with screw terminals: in field housing, wall or pipe mounting DIN rail transmitter: on a TH35 mounting rail
Housing material:	Head transmitter: Polycarbonate (PC) Terminal head: Aluminium DIN rail transmitter: Polycarbonate (PC)
Cable entries:	2 x M20x1.5, 2x 1/2NPT (Terminal head)
IP class:	DIN rail device: IP20; screw terminals IP20 Head transmitter when installing in field housing TA30A, TA30D or TA30H: IP66/67 or IP66/68
Ex-protection (Ex-versions)	according to EC-type examination certificates no. PTB 10 ATEX 2029 or no. DEKRA 11ATEX0265

Order code: TMT82–XXXXXXXX+XXXX**LE**XXXX (**LE** DNV GL Approval)

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, 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 GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Type Approval documentation

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2016.

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