DNV·GL

Certificate No:
TAA00002N5

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Temperature Transmitter

with type designation(s)
YTA610-J and YTA710-J

Issued to
Yokogawa Electric Corporation
Musashino, Tokyo, Japan

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:

Temperature	**D**
Humidity	**B**
Vibration	**A**
EMC	**B**
Enclosure	**C / IP66 / IP67**

Issued at **Høvik** on **2020-03-19**
This Certificate is valid until **2025-03-18**.
DNV GL local station: **Yokohama**

Approval Engineer: **Ståle Sneen**

for **DNV GL**

Marta Alonso Pontes
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: **262.1-029988-1**
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Product description

The YTA610-J- and YTA710-J-series temperature transmitters for Thermocouples, 2-, 3-, and 4-wire RTDs, ohms and DC millivolts inputs. The transmitter outputs 4 to 20 mA DC with digital communication HART protocol. Optionally available in explosion protected type.

Ordering code: YTA610-J**abcdef**/**g**/WCD/**g** or YTA710-J**abcdef**/**g**/WCD/**g**, where

a = Market
- **A** – Global market
- **B** – Chinese market

b = Sensor input
- **1** – Single sensor input
- **2** – Double sensor input

c = Housing material
- **A** – Aluminium, low copper cast aluminium alloy, coated
- **C** – Stainless steel, ASTM CF-8M

d = Electrical connection
- **0** – G1/2 female
- **2** – 1/2 NPT female
- **4** – M20 female

e = Integral indicator
- **D** – Digital indicator with local operating switch
- **N** – None

f = Mounting bracket
- **B** – SUS304 stainless steel 2-inch horizontal pipe mounting bracket
- **D** – SUS304 stainless steel 2-inch vertical pipe mounting bracket
- **J** – SUS316 stainless steel 2-inch horizontal pipe mounting bracket
- **K** – SUS316 stainless steel 2-inch vertical pipe mounting bracket
- **N** – None

g = Option codes
- **WCD** – Marine certificate, DNV GL Type Approval
- □□□ – Optional specification

Place of manufacture

Yokogawa Manufacturing Corporation, Kofu Office
155, Takamurocho, Kofu-shi
Yamanashi-ken 400-8558, Japan

Yokogawa Electric Asia Pte Ltd
No.5 Bedok South Road
Singapore 469270, Republic of Singapore

PT Yokogawa Manufacturing Batam
Lot 339-340 Jalan Beringin Batamindo Industrial Park
Mukakuning Batam 29433, Indonesia

Yokogawa Electric China Co., Ltd.
No.365 Xinglong Street, Suzhou City
Jiangsu Province 215126, China

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.

Application/Limitation

The temperature transmitter shall be powered by the 4-20 mA loop by a 24 Vdc instrument power supply.

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-certificate issued by a notified/recognized Certification Body.

Type Approval documentation

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, December 2019.
5 g / 11 ms impact (shock) test according to IEC 60068-2-27.

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