DNV·GL

Certificate No:
TAA00000WV

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Temperature Transmitter

with type designation(s)
SDT01, SDT02

Issued to
SHANGHAI LINGYUAN EQUIPMENT AND ENGINEERING CO., LTD
Shanghai, China

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.

Type	Temperature	Humidity	Vibration	EMC	Enclosure [1)]
SDT01/02	**B**	**B**	**B**	**A**	

1) Required protection according to DNV GL Rules shall be provided upon installation on board

Issued at **Hamburg** on **2017-08-21**
This Certificate is valid until **2022-08-20**.
DNV GL local station: **Shanghai CMC**

Approval Engineer: **Didier Girardin**

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: **262.1-024414-1**
Certificate No: **TAA00000WV**

Product description

SDT Temperature sensor & transmitter

(1 x PT1000 transmitter / 2 wire system / Transmitter output 4-20mA)
SDT 01 : Basic display function without transmitter
SDT 02 - 300: Basic display function with Temp. transmitter:0-300°C
SDT 02 - 600: Basic display function with Temp. transmitter:0-600°C

Power supply: 15-26VDC
1 x PT1000 transmitter / 2 wire system.
Output signal: 4 – 20 mA
Scaling: 0-600°C; 0-300°C

Application/Limitation

Included functionalities powered by solar energy are not part of present certificate. In particular the local monitoring of measurements are not replacing mandatory local indications if required by DNVGL rules.

Ingress Protection (IP) shall be in compliance with DNVGL Pt.4 Ch.9 Sec.5 in accordance with its installation location.

Tests carried out

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