Certificate No:
TAA0000340

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Temperature Transmitter

with type designation(s)
SDT-N

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

is found to comply with
DNV 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.

Temperature	**B**
Humidity	**B**
Vibration	**B**
EMC	**A**
Enclosure	**B**

Issued at **Hamburg** on **2022-01-03**
This Certificate is valid until **2027-01-02**.
DNV local station: **Shanghai**

Approval Engineer: **Didier Girardin**

for **DNV**

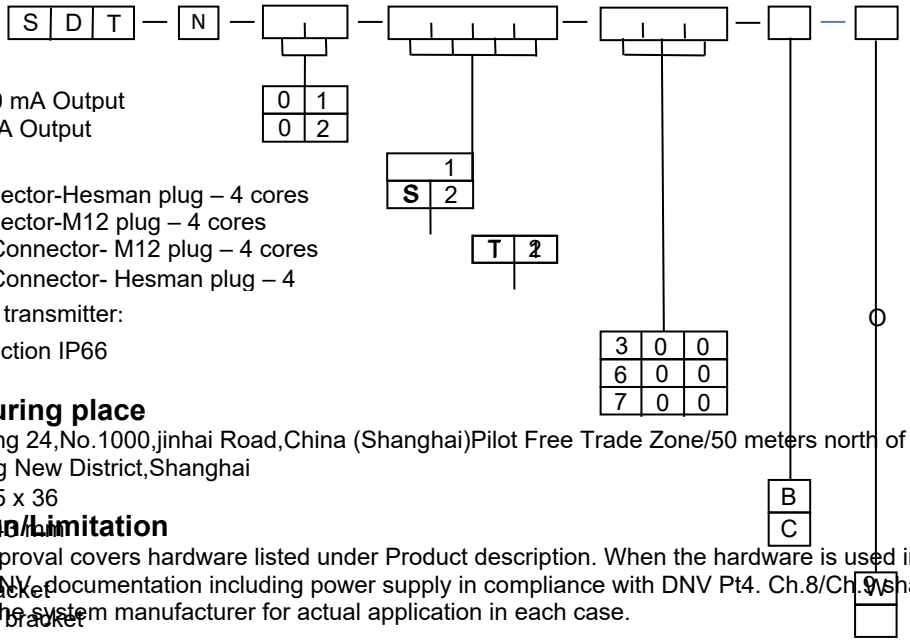
Joannis Papanuskas
Head of Section

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.

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.

Product description

SDT-N temperature sensor & transmitter



Solar Digital Thermometer

Type:

Without 4~20 mA Output
With 4~20 mA Output

Connector:

Sensor Connector-Hesman plug – 4 cores
Sensor Connector-M12 plug – 4 cores
Transmitter Connector- M12 plug – 4 cores
Transmitter Connector- Hesman plug – 4

Temperature transmitter:

0 - 300 °C
0 - 600 °C
0 - 700 °C
Specified:

Ingress protection IP66

Dimensions:

141.5 x 135.5 x 36

Application/Limitation

Bracket:

With install bracket
Without install bracket

Manufacturing place

S/F (E) Building 24,No.1000,jinhai Road,China (Shanghai)Pilot Free Trade Zone/50 meters north of No.2323 Zhouzhu Road, Pudong New District,Shanghai

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation including power supply in compliance with DNV Pt4. Ch.8/Ch.9 shall be submitted for approval by the system manufacturer for actual application in each case.

Type Approval documentation

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