Certificate no.:
TAA00003V5

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Temperature Transmitter

with type designation(s)
MT567, MP53, MP56, STX311, STX313

issued to
ABB Xiamen Low Voltage Equipment Company Limited
Xiamen,, Fujian,, 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.

Location Classes:

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

Issued at **Hamburg** on **2026-03-17**
This Certificate is valid until **2031-03-16**.
DNV local unit: **China South NB**

for **DNV**

Approval Engineer: **Ramy Abdelal**

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 USD 300 000.

Product description

STX31x	Self-powered wireless temperature sensor for power transmission conductors. The device harvests electromagnetic energy from the conductor, measures connection temperature (−40 °C to +130 °C) with high accuracy, and wirelessly transmits data via ABB proprietary protocol or Zigbee Green Power to a data concentrator for monitoring and diagnostics. Supports up to three measurement channels and features a compact IP54 design.
MT567	The wireless temperature monitoring device MT567 is used for receiving signals from wireless temperature sensor STX311/STX313 to measure the temperature of critical electrical connection in a switchgear assembly. MT567 can either send the temperature data over a Modbus TCP communication network e.g. to the online condition monitoring system ABB CMES or also directly display the temperature through MP53/MP56.
MP5x	The operator panel is available in two sizes and usually installed on the front door of the cabinet. The size should be selected based on the available space. Monitoring and operation can be done through the LCD display and the control button on the MP53 or MP56 panel. Each MT567 main unit can connect to only one operator panel.

Approval conditions

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 classification of ships Pt.4 Ch.9 Control and monitoring systems.

Application/Limitation

Type Approval documentation

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
- 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

Manufactured by:

ABB Xiamen Low Voltage Equipment Company Limited

FangShanXiEr Road,
Xiang'An Industrial Area, Torch Hi-Tech Industrial
Development Zone, 361101, Xiamen, Fujian, China

Building7, Torch
Tongxiang General Factory, No. 11-5 Butang Middle Road,
Tong'an District, Xiamen, Fujian, China

END OF CERTIFICATE