



TYPE APPROVAL CERTIFICATE

Certificate No:
TAA00001F2
Revision No:
1

This is to certify:

That the **Test and Calibration Equipment**

with type designation(s)
Temperature Calibrator TP17650, TP17650M and TP17650S

Issued to
SIKA Dr. Siebert & Kühn GmbH & Co. KG
Kaufungen, Germany

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

The instruments are only approved as portable test instruments.

Products approved by this certificate are accepted for installation on all vessels classed by DNV but contracted before 2022-01-01 only.

Issued at **Hamburg** on **2022-08-24**

This Certificate is valid until **2023-08-23**.

DNV local station: **Essen**

Approval Engineer: **Dariusz Lesniewski**

for **DNV**

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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

SIKA Temperature Calibrators comprising the following models:

Model	Calibration temperature range	Display resolution	Tolerance / Accuracy	Control stability
TP17650M	Ambient temperature to 650 °C	±1 °C	±1 °C	±0.1 °C
TP17650	Ambient temperature to 650 °C	±0.1 °C	±0.8 °C	±0.1 °C
TP17650S	Ambient temperature to 650 °C	±0.1 °C	±0.4 °C	±0.05 °C

Application/Limitation

The instruments are only approved for use as portable test instruments.

The Type Approval is only valid for units with valid calibration certificate(s). The temperature calibrator is to be calibrated yearly as specified by the manufacturer.

Equipment can only be used on ships contracted before 2022-01-01.

Type Approval documentation

Tests carried out

- EMC tests according to class guideline DNVGL-CG-0339, November 2016 (location class 'A' for EMC).
- Vibration test according to class guideline DNVGL-CG-0339, November 2016 (location class 'A' for vibration).
- SIKA performance and error simulation tests.

Marking of product

Each model is marked with manufacturer name, model name, part number, serial number and fabrication date.

END OF CERTIFICATE