

TYPE APPROVAL CERTIFICATE

Certificate No:
TAP0000197
Revision No:
1

This is to certify:

That the **Thermometer**

with type designation(s)

301, 302, 303, 304, 305, 306, 310, 311, 313, 320, 321, 323, 330, 331, 332, 333, 334, 341, 342, 343, 344, 345, 346, 1312, 1372, 6312, 6372, 8312 and 8372

Issued to

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

is found to comply with

DNV class guideline DNV-CG-0339 – Environmental test specification for electrical, electronic and programmable equipment and systems

Application :

Thermometer types according to DIN EN 13190.

Temperature range: Refer to certificate.

Issued at **Hamburg** on **2023-01-11**

This Certificate is valid until **2028-01-10** .

for **DNV**

DNV local unit: **Magdeburg**

Approval Engineer: **Ana Cristina Do Carmo Insfran**

Sven Klinger
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

Technical conformity according to EN 13190. Types and additional technical data, range of application and test standard, based on DNV Class Guideline, DNV-CG-0339 "Environmental test specification for electrical, electronic and programmable equipment and systems".

Type	Case nominal Ø [mm]	Case configuration	Temperature class as per DNV-CG-0339	Dry heat/cold test range	Vibration class as per DNV-CG-0339	Stem type
301, 302, 303, 304, 305, 306	63, 100, 160	Bayonet ring case, without dampening	D	-40°C up to +60°C	A	Rigid mount stem with neck tube
341, 342, 343, 344, 345, 346	63, 80, 100, 160	Crimped on ring case, without dampening	D	-40°C up to +60°C	A	Rigid mount stem with neck tube
301, 302, 303, 304, 305, 306	63, 100, 160	Bayonet ring case, with dampening fluid	B	-20°C up to +60°C	B	Rigid mount stem with neck tube
341, 342, 343, 344, 345, 346	63, 80, 100, 160	Crimped on ring case, with dampening fluid	B	-20°C up to +60°C	B	Rigid mount stem with neck tube
6312, 6372, 8312, 8372, 1312, 1372	63, 80, 100	Crimped on ring case, with dampening fluid	B	-20°C up to +60°C	B.2 increased	Rigid mount stem with neck tube
310, 320, 330	63, 100, 160	Bayonet ring case, without dampening	D	-40°C up to +60°C	A	With capillary line mount stem
313, 323, 333, 334	63, 80, 100, 160	Crimped on ring case, without dampening	D	-40°C up to +60°C	A	With capillary line mount stem
310, 320, 330	63, 100, 160	Bayonet ring case, with dampening fluid	B	-20°C up to +60°C	B	With capillary line mount stem
313, 323, 333, 334	63, 80, 100, 160	Crimped on ring case, with dampening fluid	B	-20°C up to +60°C	B	With capillary line mount stem
311, 321, 331, 332	63, 80, 100	Crimped on ring case, with dampening fluid	B	-20°C up to +60°C	B.2 increased	With capillary line mount stem

Application/Limitation

The selection of the thermometers for the corresponding service conditions (temperature and type of flowing media) as well as the proper assembly and installation shall be carried out in accordance with the instructions of the manufacturer. Types 301,302,303,304,305,306, 310,320,330, 313,323,333,334, 341,342,343,344,345 and 346 may not be used for adverse conditions where high pulsation or vibration exists.

Type Approval documentation

Production place

Marking of product

Each thermometer is to be marked in accordance with EN 13190. The identification marking will include the following:

- Manufacturer's name or trade mark
- Individual serial number
- Temperature range
- Unit of temperature
- Accuracy class

Periodical assessment

For retention of the Type Approval, a DNV Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the Type Approval are complied with. Refer to DNV-CP-0338, Sec.4.

- The certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>

END OF CERTIFICATE