

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Thermometer**with type designation(s)
TG53, TG54

Issued to

WIKA Alexander Wiegand SE & Co. KG
Klingenberg a. Main, Bayern, Germany

is found to comply with

DNV GL class guideline DNVGL-CG-0339 – Environmental test specification for electrical, electronic and programmable equipment and systems**Application :****Products approved by this certificate are accepted for installation on all vessels and offshore facilities classed by DNV GL.****Type: Temperature range:****TG53 see manufacturer's instruction****TG54 see manufacturer's instruction**Issued at **Hamburg** on **2019-03-01**This Certificate is valid until **2024-02-29**.DNV GL local station: **Augsburg**for **DNV GL**Approval Engineer: **Guido Friederich**

Olaf Drews
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.



Product description

Bimetal thermometer for general process applications.

Thermometer TG53	Conformities / Test Standards
Design standard	ASME B40.200
Nominal sizes [inch]	3"; 4"
Unit scale range	°F / °C
Accuracy class	Grade A / ASME B40.200
Protection class	IP 66 / IEC 60529 Optional IP 67, IP 68
Humidity class	DNVGL-CG-0339, Section 3, Class B
Salt mist resistance	DNVGL-CG-0339, Section 3, Class D
Vibration	DNVGL-CG-0339, Section 3, Class B
Wetted parts	Temperature stem, process connection
Damping	With liquid damping
Insertion length	Max. 500 mm

Thermometer TG54	Conformities / Test Standards
Design standard	EN 13190
Nominal sizes [mm]	63; 80; 100
Unit scale range	°F / °C
Accuracy class	EN 13190- Class 1
Protection class	IP 65 / IEC 60529 Optional IP 66, IP 67, IP 68
Humidity class	DNVGL-CG-0339, Section 3, Class B
Salt mist resistance	DNVGL-CG-0339, Section 3, Class D
Vibration	DNVGL-CG-0339, Section 3, Class B
Wetted parts	Temperature stem, process connection
Damping	With liquid damping
Insertion length	Max. 500 mm

Materials

Case ring, stem and process connection: ASTM 304; ASTM 316

Application

Thermometer for installations in process and machinery systems.

The selection of the TG 53 and TG54 thermometer types for the corresponding service conditions (temperature, type of flowing media) as well as the proper assembly and installation is to be carried out in accordance with the instructions of the manufacturer.

Type Approval documentation

Tests carried out

Test standard:

DNV GL Class Guideline, DNVGL-CG-0339 " Environmental test specification for electrical, electronic and programmable equipment and systems".

Tests carried out:

- Visual inspection,
- Functional check
- Vibration test
- Low temperature test
- Dry heat test
- Humidity and heat test
- Salt spray test
- Endurance test
- Determination of characteristic curves

Production place

WIKA Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Stra. 30
63911 Klingenberg
GERMANY

WIKA Polska spółka z ograniczoną
odpowiedzialnością sp. k.
ul. Łęgska 29/35
87-800 Włocławek
POLAND

WIKA Polska spółka z ograniczoną
odpowiedzialnością SGF sp. k.
ul. Kawka 6
87-800 Włocławek
POLAND

Marking of product

Each thermometer is to be marked in accordance with EN 13190

The identification marking will include the following:

- Manufacturers name or trade mark
- Individual serial number
- Temperature range
- Unit of temperature
- Accuracy class

Job Id: **262.1-003289-4**
Certificate No: **TAP00001SA**

Periodical assessment

A condition for retention of the Type Approval Certificate in its validity period is that periodical assessments are successfully carried out.

The objective of the periodical assessment is to verify that the conditions for the type approval have not been altered. The main scope of the periodical assessment will normally include:

- Verification of the TA applicant's production and quality system w.r.t ensuring continued consistent production of the type approved products at the TA applicant's own premises and at other companies that are given the responsibility for manufacturing of the products.
- Review of the TA documentation and that this is still used as a basis for the production
- Review of possible changes to the design, the material and the performance of the product
- Verification of the product marking

END OF CERTIFICATE