

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Temperature Sensor

with type designation(s)
W081, W083, W30

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 :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Location classes:

Temperature B

Humidity B

Vibration B

EMC -

Enclosure B (IP54 tested, type W30 with gasket IP65 tested)

Issued at **Hamburg** on **2017-08-17**

This Certificate is valid until **2022-07-11**.

DNV GL local station: **Magdeburg**

for **DNV GL**

Approval Engineer: **Klaus-Peter Schröder**

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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.



Job Id: **262.1-005416-5**
Certificate No: **TAA000018C**

Product description

Measurement of temperature in separators

W083, W081: Resistance Thermometer in Swivelling Execution

Temperature Sensor in Swivelling Execution

Measuring range	-40°C up to 200°C
Measuring insert	1xPt100 2xPT100/B/2 and special sensors
Immersion tube length	L1 = max. 100 mm
Immersion tube diameter	8 mm
Material	1.4571 stainless steel brass
Thread connection	G1/2A and special threads
Connector	head form J

W30: W061, W063, W081, W083

Measuring range	-50°C up to 200°C
Measuring insert	1xPt100 1xPt1000 Class B, 2-wire or 3-wire
Immersion tube length	L1=50mm up to 200mm
Immersion tube diameter	6mm 8mm
Material	1.4571 stainless steel Brass and special materials
Thread connection	G1/2A and special threads
Connector	according to DIN EN 175301-803, Form A, PA 6.6, UL 94 Classification 94V-0

Application/Limitation

The Type Approval covers hardware listed under Product description.

When the hardware is used in applications to be classed by DNV GL, 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 GL RU SHIP Pt.4 Ch.9 Sec. 1.

Type Approval documentation

Tests carried out

Applicable tests according to Class Guideline DNVGL-CG-0339, Edition November 2016.

Marking of product

The products to be marked with:

- Article number
- Sensor
- Fabrication number
- Circuit diagram

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

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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 at least every second year and at renewal of this certificate.

END OF CERTIFICATE