



Lloyd's  
Register

## Type Approval Certificate

*This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.*

This certificate is issued to:

<b>PRODUCER</b>	SIKA Dr. Siebert & Kühn GmbH & Co. KG Struthweg 7-9 34260 Kaufungen Germany
<b>DESCRIPTION</b>	Temperature Sensor in Swivelling Execution
<b>TYPE</b>	W083
<b>APPLICATION</b>	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2, ENV3 and ENV4 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2002
<b>ADDITIONAL TESTS</b>	Low Temperature Test (-25 °C / 2 h)
<b>STANDARD</b>	Manufacturer's Specification
<b>RATINGS</b>	Measuring range: -40 ... 200 °C Measuring insert: 1 x Pt 100, 2 x Pt 100/B/2 Class B and other special sensors Material: Stainless steel 1.4571 Thread connection: G1/2A and special threads Connector: Head form J Immersion tube diameter: 8 mm Immersion tube length: L1 = max. 100 mm

<b>Certificate No.</b>	07/20033 (E2)
<b>Issue Date</b>	09 September 2019
<b>Expiry Date</b>	14 July 2024
<b>Sheet</b>	1 of 2



Thorsten Wolff  
Hamburg Technical Support Office  
Lloyd's Register EMEA

Lloyd's Register EMEA  
71 Fenchurch Street, London EC3M 4BS

Lloyd's Register EMEA  
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Lloyd's  
Register

*The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.*

*If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.*

*The Design Appraisal Document No. HTS/ETS 38743-19 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

**Certificate No.** 07/20033 (E2)  
**Issue Date** 09 September 2019  
**Expiry Date** 14 July 2024  
**Sheet** 2 of 2

*Lloyd's Register EMEA  
71 Fenchurch Street, London EC3M 4BS*



Thorsten Wolff  
Hamburg Technical Support Office  
Lloyd's Register EMEA

Lloyd's Register EMEA  
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.