

TYPE APPROVAL CERTIFICATE No. ELE019423XG

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

Temperature sensors
TST310 series
Endress + Hauser Wetzer GmbH + Co. KG
Oberer Wang 1
87484 Nesselwang
GERMANY
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GERMANY
Rules for the classification of ships Part C - Machinery, systems and fire protection Ch.3, Sect. 6, Table 1.

Issued in HAMBURG on January 26, 2023. This Certificate is valid until January 25, 2028

Giuseppe Russo

This certificate consists of this page and 1 enclosure

TYPE APPROVAL CERTIFICATE No. ELE019423XG Enclosure - Page 1 of 1 TST310 series

Product description:

The **TST310** series are resistance thermometers for temperature measurement in gaseous or liquid media like air, water, oil and others.

Main characteristics:

Diameter: 3 or 6mm, Sensor type: 1x Pt100 or 2x Pt100 Housing material: stainless steel Process connection: thread or compression fitting Degree of protection: IP65

Order code: TST310-10, 20, 30, 40, 50, 60, 70, 80, 90 10 - Inset diameter, Calibration: A; B; 1; 2; 3; 4 20 - Insertion length NL: 1; 2; 3; 4; 5; 7; 8mm (max. 50000mm)

- 30 Insert material:
- A; B; C
- 40 RTD Class; Wiring:
- 1A3; 1A4; 1B3; 1B4; 1C3; 1C4; 2A3; 2B2; 2B3; 2C3 **50 Process Connection:**
- E; F; G; J
- 60 Length extension L:
- 1; 2; 3; 4; 8mm (max. 10000mm)
- 70 Wire; Sheath; Application:
- B; C; D; E;
- 80 Connection cable:
- 1
- 90 Additional option:
- A; E; F; G; H; I; P; 3;

Documents:

- DAS93505 Rev. H dated 24.11.10;
- Technical Description Vers.01.00 dated 2011-08-30;
- TI00085T/09/en/01.11;

Test reports:

KEMA Quality B.V.: - KEMA01ATEX1169X Issue 4 dated March 27, 2009; Paconsult GmbH: - 17-8672 dated 28 March 2017; Endress + Hauser: - 970004027 dated 09.09.2013

Remarks:

- The products fulfill EC-Code: EC31.
- The equipment was tested during cold test with -70°C.

This Certificate supersede ELE065217XG/001.

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HAMBURG January 26, 2023

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