Threaded resistance thermometer For shipbuilding industry Models TR291, TR292

WIKA data sheet TE 69.20



Applications

- Machine building, plant and vessel construction
- For liquid media, i.e. water, oil
- For geaseous media, i.e. air, gas, vapour

Special features

- Robust
- Medium temperature up to 600 °C
- Versions:
 - Model TR291: measuring insert replaceable
 - Model TR292: measuring insert fixed mounted
- GL and LR approval



Fig. left: Resistance thermometer model TR291 Fig. right: Resistance thermometer model TR292

Description

Resistance thermometers of this series are designed for screw-fitting directly into the process, mainly in vessels and pipelines. They are suitable for liquids and gases up to 600 °C. At the same time process pressures up to 50 bar and flow rates up to 25 m/s are permissible.

The replaceable measuring insert on the model TR291 enables inspection, measuring equipment monitoring or, when servicing is necessary, replacement while the plant is running.

Insertion length, process connection, thermowell design, connection head and sensor can each be selected to suit the respective application.

WIKA data sheet TE 69.20 · 11/2011



Sensor

Sensor tolerance value per DIN EN 60751

Class B

■ Class A (-50 ... +450 °C; not with 2-wire connection)

The combination of a 2-wire connection with Class A is not permissible, because the lead resistance of the measuring insert overrides the higher sensor accuracy.

For detailed specifications for Pt100 sensors, see Technical Information IN 00.17 at www.wika.com.

Neck

Material Stainless steel 1.4571

Neck length MH 50, 100, 150 mm others on request

Process connection

Mode of connection Threaded connection

Material Stainless steel 1.4571

Thread G 1/4 B, G 1/2 B, G 3/4 B others on request

Thermowell

Design From solid body material

Material Stainless steel 1.4571

Diameter 8, 9, 11, 15 mm others on request

Insertion length 100, 150, 200, 250, 300 mm

other versions on request

Dimensions in mm

Model TR291 with connection head model BS Model TR292 with connection head model BS 3376006.01 3375990.01 75 75 ġ ю. Σ Σ Ε Е Ū, U, Legend: F Thread Μн Neck length Insertion length U1 ØF1 ØF₁ Ø F1 Thermowell external diameter

Connection head



Model	Material	Cable entry	Ingress protection	Сар	Surface finish
BS	Aluminium	M20 x 1.5	IP 54	Cap with 2 screws	Epoxy coated
BSZ	Aluminium	M20 x 1.5	IP 65	Hinged cover with cylinder head screw	Epoxy coated
KNE	Aluminium	M20 x 1.5	IP 65	Screw cover	Epoxy coated
BSK	Plastic	M20 x 1.5	IP 54	Screw cover	not coated

1) Cable gland, metal

Electrical connection



Ordering information

 $Model \ / \ Sensor \ type \ and \ number \ of \ sensors \ / \ Sensor \ connection \ method \ / \ Tolerance \ value \ / \ Process \ connection \ / \ Thermowell \ outer \ diameter \ F_1 \ / \ Neck \ length \ M_H \ / \ Insertion \ length \ U_1 \ / \ Connection \ head$

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Page 4 of 4

WIKA data sheet TE 69.20 · 11/2011



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