



THERMOCOUPLE THERMOMETER

Thermocouple Thermometer for Screwing In

Form 2G acc. to DIN 43772-2

TCS211 TCS212

TCS221 TCS222

TCS231 TCS232



Description

Form 2G-Thermocouples are used as universal thermometers preferably in processes with liquid- and gas medias under low pressure.

The standard head is type B according to DIN 43763. On request other types as type BUZ (for build in of head transmitters), type BBK (plastic head) or type BUSH (for build in of intrinsically safe head transmitters) can be used.

The listed thermowells can be used for pressures up to 36 bar, depending on the process conditions. Different materials or overlays are available for mechanical or chemical protection. Beneath the extension tube is a fixed screw G 1/2A, G 3/4A or G 1 A for connecting the thermometer to the process. Other connectings are available.

Generally a thermoelement type K, J or T is build in. On request a thermoelement type B,R or S can be used.

Features

- Universal thermometer for low pressure
- Interchangeable insert acc. to DIN
- Standard versions ex stock
- Special versions on request

Measuring range

between 0 ... 800 °C

Applications

Air Conditioning
 Tank and pipe construction
 Chemical Industry
 Mechanical Engineering and Machinery

Technical data: Thermocouples for screwing in

Series	TCS200		Options
Design			
Description	Form 2G acc. to DIN 43772-2		
Process Connection	G 1/2A, G 3/4A	G 1 A	
Thermowell			
Diameter	Φ9 mm Φ11 mm	Φ11 mm Φ14 mm	tapered tip Φ7.0 mm
Stem Length L ₁	160 mm 250 mm 400 mm	160 mm 250 mm 400 mm	other length
Material	1.4571		1.4541 1.7335
Extension tube	145 mm		
Connection head	Form B acc. to DIN 43729 water proof IP 54 acc. to DIN 40050 immersion tube connection M 24 x 1.5 Although available : plain stem 15.5 mm or with screw G 1/2A		Form BUZ Form BUS Form BUZH Form BUSH
Sensor Element	TCS211 1x NiCr-Ni (K) acc. to DIN IEC 584-1, 0 ...800 °C TCS212 2x NiCr-Ni (K) acc. to DIN IEC 584-1, 0 ... 800°C TCS221 1x Fe-CuNi (J) acc. to DIN IEC 584-1; 0 ... 750 °C TCS222 2x Fe-CuNi (J) acc. to DIN IEC 584-1; 0 ... 750 °C TCS231 1x Cu-CuNi (T) acc. to DIN IEC 584-1; 0 ... 350 °C TCS232 2x Cu-CuNi (T) acc. to DIN IEC 584-1; 0 ... 350 °C Class 2		Class 1