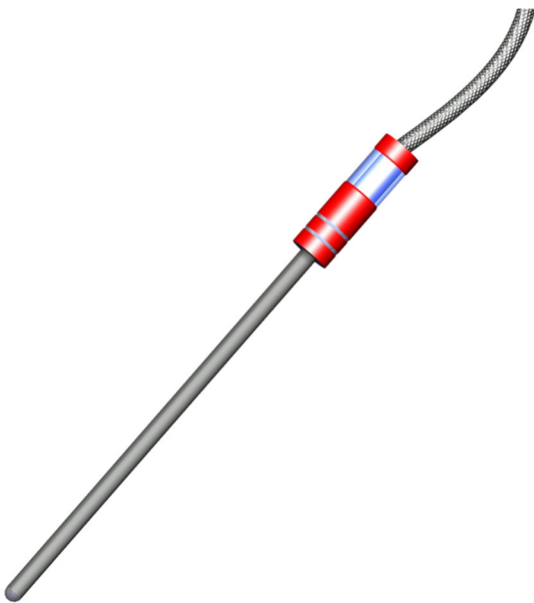


EP-E168

Industrial reference thermoelement Type S

Precision thermocouples made of noble metal (type R thermocouple and type S thermocouple). Optimized for applications with small immersion depths, e.g. in temperature dry block calibrators.

Typ S: 0 °C to 1200 °C



Industrial type S thermocouple

- optimized for use with small immersion depths
- small inhomogeneity due to thermally treated thermowires
- thin measuring point for fast response times
- ideal for industrial use, e.g. in block calibrators

The Type R / Type S reference thermocouple was specifically developed as a temperature standard for industrial calibrations and temperature measurements. It consists of the same high quality thermocouple material as the Type R / Type S precision thermocouple. However, the design of the Type R / Type S reference thermocouple is specially adapted to industrial requirements. For example, the ceramic sheath is made from a smaller protection tube. These small dimensions mean that the Type R / Type S reference thermocouple can be used as a temperature standard for calibration with dry block calibrators, for example. As a further adaptation to industrial conditions, an external reference junction can optionally be dispensed with; instead, Type R / Type S mini plugs can be used. Excellent measurement uncertainties are achieved with this type of thermometer, as no compensating materials are used if required (not even on the connecting cable).



Technical Data

Model	eXacal EP-E168
Temperature range	0 °C to 1200 °C
Thermowire	<ul style="list-style-type: none"> • Type S (Pt10Rh/Pt) • maximum purity available • thermally pre-treated and annealed
Sheath	made of gas-tight high-purity ceramic
Handle	maximum continuous temperature 100°C
Function	DIN EN 60584 (individual parameters are calculated during calibration)
Connection	depending on configuration
Sheath material	Metal
Thermometer wire	silver
Uncertainties of measurement (with DAkkS calibration)	
Fix point calibration	
0,01°C	0,2 K
419,527 °C	0,5 K
660,323 °C	0,5 K
Comparison calibration	
0 °C bis 962 °C	0,8 K
>962 °C bis 1200 °C	1,5 K
Dimensions	
Handle	Ø12mm x 40mm
Protection Sheath	Ø5mm x 290mm
Length of thermoeouple wire	depending on configuration
Length of connection cable	1 m