



## Type R / Type S Precision Thermocouple

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The precision thermocouples are used as transfer standards, for high-precision temperature measurements or as calibration standards. The type R / type S thermocouples are precision noble metal thermocouples which can be assembled with a reference junction or with mini plug. They are characterized by the highest available purity of the thermocouple wires.

## Highlights

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- ✓ Temperature range: **0°C to 1200 °C**
- ✓ **configurable**  
In our thermometer configurator you can individually configure the thermometer according to many parameters.
- ✓ **highest available purity of the thermocouple wires**  
The thermocouple wires are specifically thermally treated.
- ✓ **small measurement uncertainties with DAkkS calibration certificate**  
The thermometer can be calibrated at fixed temperature points with smaller measurement uncertainties.

# Technical data

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<b>Model No.</b>	<b>KK-170</b>
Temperature range	0°C to 1200°C
Connection	temperature resistant – Thermoelectric cable with mini plug or very low EMF copper
Thermowire	<ul style="list-style-type: none"><li>• Type R / Type S</li><li>• maximum purity available</li><li>• thermally pre-treated and annealed</li></ul>
Sheath	made of gas-tight high-purity ceramic
Handle	maximum continuous temperature 100°C
Function	DIN EN 60584 (individual parameters are calculated during calibration)
<b>Uncertainties of measurement (with DAkkS calibration)</b>	
Fixed point calibration 0,01°C 419,527 °C 660,323 °C 961,78°C	0,2K 0,5K 0,5K 0,6K
Comparison calibration 0°C to 962°C >962 °C to 1200°C	0,8K 1,5K
<b>Dimensions</b>	
Protection Sheath	Ø7mm x depending on configuration
Handle	Ø20mm x 95mm
Length of thermocouple wire	depending on configuration
cold junction	non or Ø6mm x 280mm (stainless steel) with two meter connection cable made of very low EMF copper
Length of connection cable	non or very low EMF copper (depending on configuration)
Carrying case	Exclusive wooden case (optional)

Further information:  
[www.exacal.de](http://www.exacal.de)

