

## P45 Mineral Insulated Type J & Type K Thermocouple with Mini Connector & Small Diameter Probe

- Compact mineral-insulated construction
- Available in AISI 304 for type J (iron-constantan) or INCONEL 600 for type K (chromel-alumel)
- Suitable for operation up to 1,112°F for type J & 2,102°F for type K
- Custom probe length & various probe diameters
- Compensated connector may be over-molded or hand-assembled
- Withstands vibrations, high pressures, and thermal cycling



### About

The P45 thermocouple features a compact, mineral-insulated design with a standardized "mini" compensated connector. Ideal for applications requiring fast response times and small dimensions, this sensor is available in various sheath diameters and lengths, making it a versatile solution for precise temperature measurements in challenging environments.

### Applications

- ✓ Generators
- ✓ Compressors
- ✓ HVAC-R
- ✓ CNC machines
- ✓ Skid Packagers
- ✓ Test Benches
- ✓ More

# Build Your Part Number

## Series P45

Example: P45LD1J

<b>Series</b>	
P45	

<b>Probe Length - - please specify</b>	
L	Please specify under part number; Example: L = XXXmm

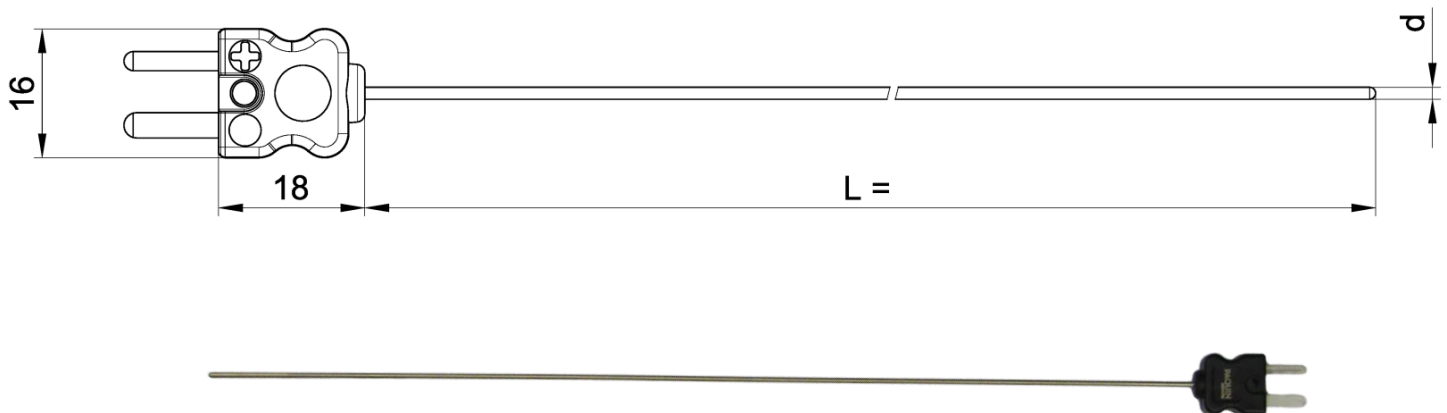
<b>Probe Diameter - select one</b>	
D1	1mm
D7	1.5mm
D2	2mm
D3	3mm

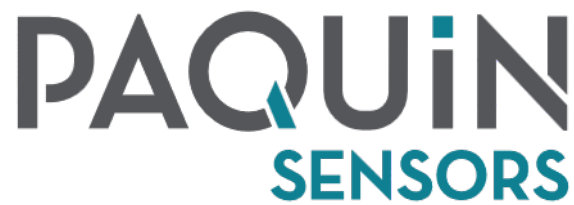
<b>Thermocouple Calibration - select one</b>	
J	Type J (iron-constantan) AISI 304 - aximum working temperature 1,112°F
K	Type K (cromel-alumel) INCONEL 600 - sensing part maximum working temperature 2,102°F

## Technical Parameters

Technical Parameters	
Number of sensing elements	Single
Hot measuring joint	Insulated
Output signal type	Thermocouple type J or K
Norm of reference	ANSI MC96.1 and IEC 584
M.I.C. minimum bending radius	3 X outer diameter
Insulation resistance	100 M Ω@ 100 Vdc.
Connector type	Male miniature over-molded and compensated
Connection body material	Polyamide (molded)
Maximum connector temperature	248°F

## Dimensions (mm)





*Paquin Sensors' product portfolio is designed to provide options to fit the most diverse range of specifications.*

*We collaborate with our customers to match the best product technologies with your unique application requirements.*

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