

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

- Compact mineral-insulated cable 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
- Withstands vibrations, high pressures, and thermal cycling



About

The P45 thermocouple features a compact, mineral-insulated cable design with a standardized miniature 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

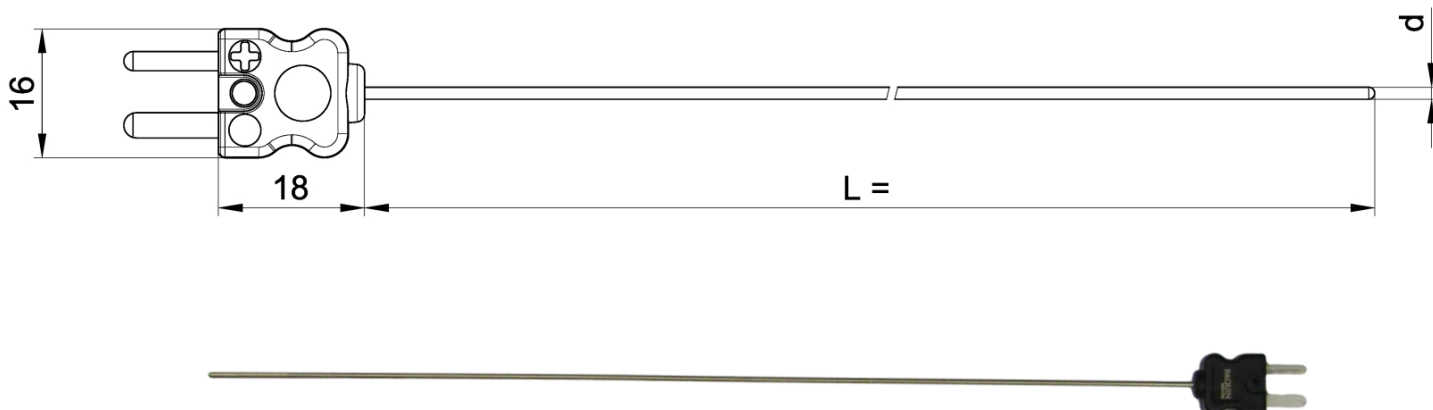
Example: P45LD1J
L = 200 mm

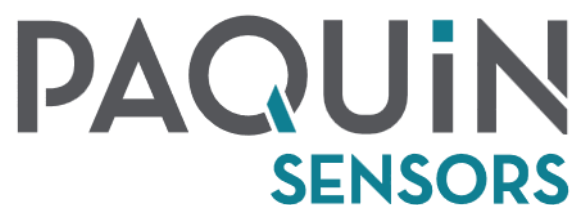
Series	
P45	
Probe Length- - please specify (standard lengths from 150mm to 500mm depending on probe diameter (consult Paquin))	
L	Please specify under part number; Example: L = 200mm
Probe Diameter - select one	
D1	1mm
D7	1.5mm
D2	2mm
D3	3mm
Thermocouple Calibration - select one	
J	Type J (iron-constantan) AISI 304 - maximum working temperature 1,112°F (600 °C)
K	Type K (cromel-alumel) INCONEL 600 - sensing part maximum working temperature 2,102°F (1150 °C)

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 (120 °C)

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.

Please [contact us](#) or call +1 (800) 831-8217 anytime to discuss your needs!