

# Custom Built Heavy Duty Industrial Thermocouple

- Sensors made to meet your requirements
- Thermocouple types K, J, N, R, S and B available
- Sheath diameters from 12.7mm to 26.7mm
- Wide choice of sheath materials
- Die Cast Alloy or Cast Iron Head
- UKAS calibration available
- Generally shipped in 5 to 7 days or sooner



Shown with optional WBPSA fitting

**RATED TO IP67**

SECTION 1	Thermocouple Type	Temperature Range (continuous)
<b>K</b>	Nickel Chromium vs Nickel Aluminium	0°C to +1100°C
<b>J</b>	Iron vs Constantan	+50°C to +800°C
<b>N</b>	Nicrosil vs Nisil	0°C to +1200°C
<b>R</b>	Platinum - 13% Rhodium vs Platinum	0°C to +1600°C
<b>S</b>	Platinum - 10% Rhodium vs Platinum	0°C to +1550°C

SECTION 2	Sheath Diameter (mm)	Sheath Diameter (inches)
<b>Standard Sizes</b>	12.7mm	1/2"
	15.9mm	5/8"
	21.3mm	13/16"
	26.7mm	1 + 1/16"

SECTION 3	Standard Sheath Material	Max. Temp.
<b>116</b>	316 Stainless Steel	800°C
<b>176</b>	Inconel 600	1100°C
<b>180</b>	Incoloy 800	1100°C
<b>144</b>	AISI 446	1150°C
<b>114</b>	Nicrobell D	1250°C

SECTION 4	Secondary Sheath (optional)
<b>IAP</b>	Impervious Aluminous Porcelain
<b>IRA</b>	Impervious Recrystallised Alumina
<b>IM</b>	Impervious Mullite

SECTION 5	Optional Tube Mounting Fittings	
<b>WBPSA</b>	St/Steel welded bush 3/4" BSPP	<p>State bush position on sheath</p>
<b>WB TSA</b>	St/Steel welded bush 3/4" BSPT	
<b>WBPSB</b>	St/Steel welded bush 1" BSPP	
<b>WB TSB</b>	St/Steel welded bush 1" BSPT	
<b>FI1</b>	100mm dia. adjustable Cast Iron Flange	

SECTION 6	Terminal Heads	
<b>3P11</b>	Weatherproof Standard Size <b>Die Cast Alloy</b> Head	<b>3P12</b>
<b>3P12</b>	Weatherproof Standard Size <b>Cast Iron</b> Head	<b>3P12</b>

## Order Code - Example

Type No	Thermocouple Type (See section 1)	Nº of elements	Primary Sheath Dia. (See section 2)	Primary Sheath Material (See section 3)	Sheath Length under Head	Secondary Sheath Material (if required, see section 4)	Tube Mounting (See section 5)	Terminal Head (See section 6)
<b>13</b>	<b>- K</b>	<b>- 1</b>	<b>- 13/16</b>	<b>- 176</b>	<b>- 500</b>	<b>- IRA</b>	<b>- FI1</b>	<b>- 3P12</b>