

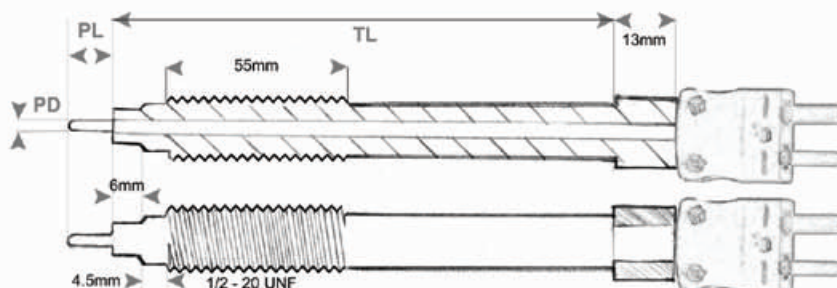
# Thermocouples for the Plastics Industries

## Plastic Melt Temperature Extruder Thermocouples

If you require the true plastic melt temperature, with millisecond response time and no conduction errors caused by the thermowell, refer to these specially designed plastic melt probes. For true temperature indication and control of the plastic melt, these units will deliver your requirements.

Designed for use in extruder heads or die adapters of injection moulding machines, the sensor fitting can be either flush, or immersed into the plastic melt as desired for optimum control. The high pressure thermowell sensor sheaths are manufactured from 321 stainless steel.

Standard units have a type "J, K or T" thermocouple junction, electrically grounded to the thermowell. The unit has a standard 2 pin thermocouple compatible plug connector, or a flexible 14" (355mm) armoured extension cable connected to the 2 pin thermocouple compatible plug. Duplex units of J, K or T thermocouple types are available.



NB: diagram not to scale

### ORDER CODE

PM/M/	-	-	-	-	-
<b>Sensor type</b> K*, J, T – Thermocouple	_____	_____	_____	_____	_____
<b>Probe Diameter (PD)</b> A – 3mm * B – 1/8"	_____	_____	_____	_____	_____
<b>Probe length (PL)</b> A – 0 (flush) B – 2mm C – 5mm * D – 10mm	_____	_____	_____	_____	_____
<b>Tube material</b> 1 – 316 * 2 – 304	_____	_____	_____	_____	_____
<b>Tube Length (TL)</b> A – 76mm (3") * B – 101.5mm (4") C – 152.5mm (6") * D – 228mm (9")	_____	_____	_____	_____	_____
<b>Flexible Option</b> F – Flexible * R – Rigid	_____	_____	_____	_____	_____

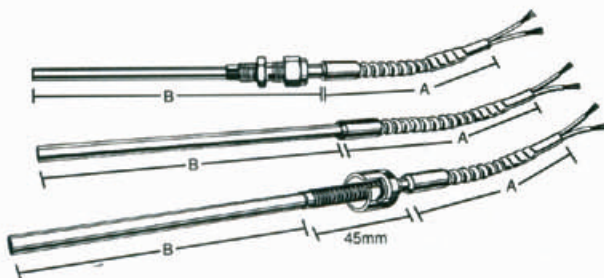
Items marked with an asterisk are ex-stock

Flexible melt  
thermocouple

Standard (rigid) melt  
thermocouple

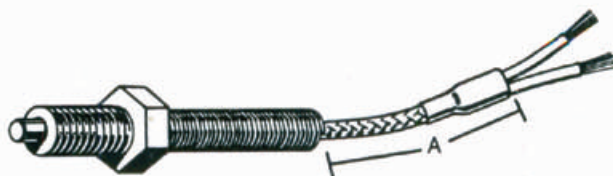
# Thermocouples for the Plastics Industries

## Straight Pattern Sensors



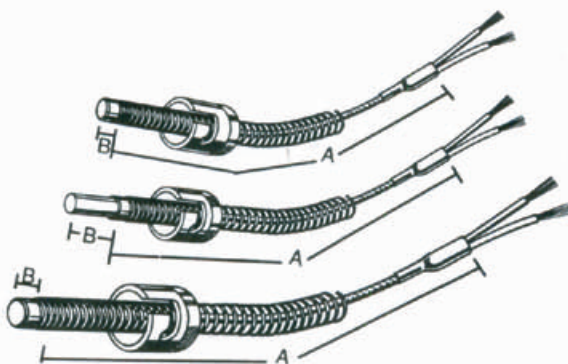
Order Code	
PM/S/	- - - -
Sensor type	K, J, T - Thermocouple P - RTD (Pt100)
Tube length B	Specify in mm
Tube Diameter	A - 3mm D - 1/8" B - 4.5mm E - 3/16" C - 6mm F - 1/4"
Extension length A	Specify in mm
Extension sheath material	MB - Metal Braid MF - Metal Flex
Fitting	BC - Bayonet cap GB - Adjustable gland (brass) SG - Adjustable gland (Stainless steel) Specify thread size for adjustable gland NF - No fitting

## Nozzle Pattern Sensors



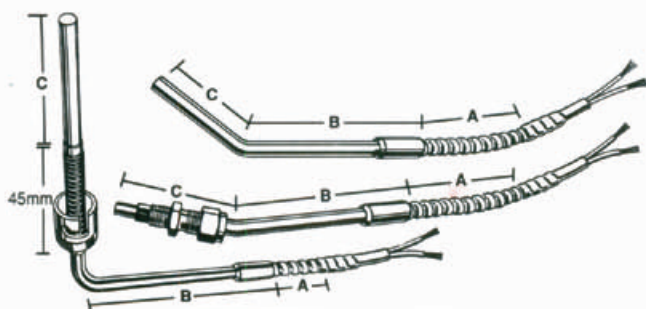
Order Code	
PM/N/	- - MB-
Sensor type	K, J, T - Thermocouple
Extension length A	Specify in mm
Extension sheath material	MB - Metal Braid
Fitting	S - 1/4" BSF Thread O - Other (specify thread size and style)

## Spring Pattern Sensors



Order Code	
PM/F/ADJ/BC	- - - -
Sensor type	K, J, T - Thermocouple P - RTD (Pt100)
Tube length B	Specify in mm
Tube diameter	A - 4.5mm D - 3/16" B - 6mm E - 1/4" C - 8mm F - 5/16"
Extension length A	Specify in mm
Extension sheath material	MB - Metal Braid
Spring length	8 - 8" (200mm) long 12 - 12" (305mm) long
Bayonet cap fitting	BC - Standard BS - Brass single lock BD - Brass double lock BL - Large (available with 8" spring)

## Angle Pattern Sensors



Order Code	
PM/A/	- - - -
Angle	R - 90° A - Specify angle
Sensor type	K, J, T - Thermocouple P - RTD (Pt100)
Tube length B	Specify in mm
Angle length C	Specify in mm
Tube diameter	A - 3mm D - 1/8" B - 4.5mm E - 3/16" C - 6mm F - 1/4"
Extension length A	Specify in mm
Extension sheath material	MB - Metal Braid MF - Metal Flex
Fitting	BC - Bayonet cap GB - Adjustable gland (brass) GS - Adjustable gland (Stainless steel) Specify thread size for adjustable gland NF - No fitting

Other terminations available for all types on request

