

For continuous monitoring of sub zero temperatures

- SD051 for service to -25°C
- SD051 (EP) for service to -80°C , can be used at cryogenic temperatures.



Specification:	
SHEATH DIMENSIONS	Diameter : Metric: 3.0mm, 4.0mm, 4.5mm, 5.0mm, 6.0mm, 8.0mm Imperial: $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ " Length: 25mm to as required
MATERIAL	316/316L stainless steel
RTD OPTION	
DETECTOR	Thin film single or duplex (3 or 4 wire) PT100 or PT1000 Class B or A to BS EN 60751:2008.
DETECTOR TOLERANCE	Thin film tolerance range: Class B -50°C to $+25^{\circ}\text{C}$ Class A -30°C to $+25^{\circ}\text{C}$ Note tolerance below must be determined by calibration
LEADS	Silver plated copper conductors with PFA insulation and a PFA outer jacket with a minimum overall length of 1000mm.
PROBE OPERATING RANGE	SD051: -25°C to $+100^{\circ}\text{C}$ SD051(EP): -80°C to $+25^{\circ}\text{C}$ (will withstand -196°C) Note tolerance limits
TRANSMITTER	PR 5332 transmitter recommended for high accuracy. Enclosures available.
THERMOCOUPLE OPTION	
DETECTOR	Single, duplex or triplex element, type 'T' (Cu/Con) to BS EN 60584-1:2013.
DETECTOR TOLERANCE	Class 1 tolerance range - 40°C to $+100^{\circ}\text{C}$ Note tolerance below must be determined by calibration
LEADS	Silver plated type 'T' conductors with PFA insulation and a PFA outer jacket, Class 1 material and IEC colours. Minimum overall length of 1000mm.
PROBE OPERATING RANGE	-80°C to $+25^{\circ}\text{C}$ (will withstand -196°C) Note tolerance limits
TRANSMITTER	PR 5334 transmitter recommended for high accuracy. Enclosures available.
OPTIONAL EXTRAS	
<ul style="list-style-type: none"> • Compression fittings with threads or tri-clovers • Material certs for wetted parts • UKAS calibration at -196°C and from -100°C to $+100^{\circ}\text{C}$ • ADIF statement • 0.8 RA surface finish on wetted parts • Electropolishing for superior surface finish 	

Datasheet : 002