- Manufactured as per IEC 1515-1995.
- Metal Sheathing and mineral insulation reduces overall size of inserts.
- Can be used at relatively higher temperatures.
- Pliable and can be routed through high temperature environment.
- Available with a choice of cold end termination (CJTs) and connectors.
- Certified for use in hazardous area.
- Thermo Couple available in ANSI TC Types J, K, T, E, N, R, S & B (EC - 584 - Part 1, 2 & 3).
- Pt100 RTDs to IEC 751-1995.
- Certified for use in hazardous area.
- Ungrounded hot junction as a standard feature.
- Integral lead wires with PTFE or Fibreglass insulation.
- Special designs to suit your applications.

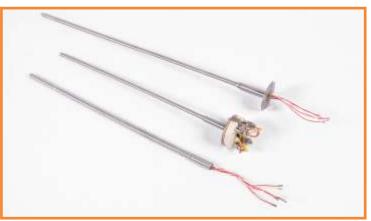
MI Thermocouple sensors employ a metal Sheathed, Mineral insulated cable with matched Thermocouple conductors. The insulation is a compacted mass of MgO and this heterogenous cable, when converted into a Thermocouple sensor offers many unique advantages over the Conventional ceramic bead insulated Thermocouples. MI Thermocouple sensors are pliable, can be bent, coiled, routed through bends or intricate paths, bundled together to form a Multiple sensor assembly or welded to a tube or any surface to measure skin temperatures. The junction and Thermocouple conductors are not exposed to process fluids thus ensuring a longer usable life.

MI Thermocouples sensors are generally supplied with their hot junction isolated or ungrounded from the sheath. This enables the users to carry out periodical checking of the Thermocouple sensors. Bonded or grounded junction sensors are also supplied against request.

MI Resistance Thermometer sensor incorporates a wire wound element conforming to IEC 751 Class "A" or "B". The element leads are extended to the open end of the sensor by means of a MI Transducer lead out cable employing Nickel or conductors, constant or copper, compact mass of MgO as insulation and stainless steel sheath conforming to AISI 316. The standard overall sheath diameter available are 6mm, 4.8mm and 3.2mm.

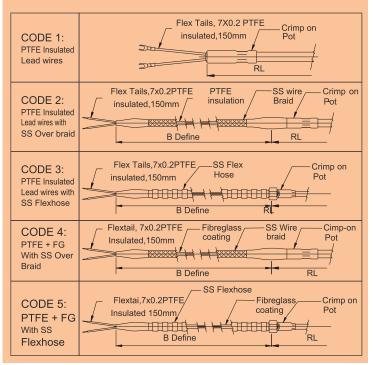
Sensors, when built, are subject to all the routine tests as per IEC 751-1995. Type tests and any other special test can be carried out by mutual agreement.



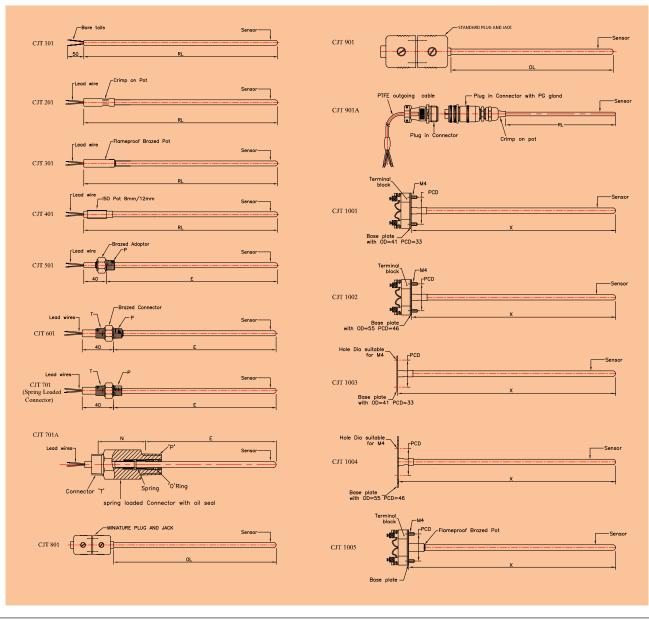


	ANSI Type	Sheath dia	Wire dia
SINGLE (J,K,T,E,N	3.0 4.5 6.0 8.0	0.6 0.9 1.2 1.6
DUPLEX ()	J,K,T,E,N	3.0 4.5 6.0 8.0	0.5 0.5 0.9 1.2

LEAD OUT CABLE DETAILS







Ordering Example - RTD

100#1-Pt100A-3W-6-316-IEC 751-CJT701-3-150-X-E=500-X-1/2"NPT-1/2"NPT-OPTION-14B

Model	Suffix Codes			Description	
100#RTD				100 // DTD	
No of Elements	1			Simplex	
	2				
	3				
3 Element Type		· · · · · · · · · · · · · · · · · · ·			
No of Wires					
3W					
Sheath Dia 3					
Silealii Dia					
Sheath Material					
	INC				
Calibration Std		DIN43760		RTD calibration DIN 43760	
		IEC751		RTD calibration IEC 60751	
CJT details		CJT 101		Hot end JN with bare tails	
		CJT 201		Crimp on pot and lead wire	
		CJT 301		Brazed pot & adj com fitting	
		CJT 401		Threaded ISO pot	
		CJT 501			
		CJT 601			
		CJT 701			
			3		
CJT 901A CJT 1001 CJT 1002				· -	
				1 3 · · · · · · · · · · · · · · · · · ·	
				1 3	
CJT 1003			'		
CJT 1004					
=		CJT 1005			
Lead Wire Type 1			PTFE Insulated		
			PTFE with SS Overbraided		
3 4				PTFE with SS Flexhose	
				PTFE + FG with SS Over Braid	
7			PTFE + FG with SS Flexhose		
			PTFE with Overall PTFE		
			PTFE + SS Flexhose + Overall PVC		
			PTFE with FG		
Lead Wire Length* B		Lead Wire Length 'B' mm			
Length of Insert* X		Length Below Base Plate 'X' mm			
Length of Element Along Pipe*		Element Length Along the Pipe 'E' mm			
Length of Insert/probe* RL					
		T-1/4NPTM			
J			T-1/4NPSM		
			T-1/4BSPM		
			XX		
			700	(Refer table B)	
Mounting Throads D		D 1/4NDTM	,		
Mounting Threads	Г		P-1/4NPTM		
			P-1/4NPSM		
			P-1/4BSPM		
				(Refer table B)	
Options			Refer table a for comprehensive	list of option/variations which pyro can offer along with our standard design	

*Please consult our marketing team for any non standard dimensions. Note: For field which are not applicable, select 'XX' or enter '0' whichever is mentioned.



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Ordering Example - THERMOCOUPLE

100#-MI-2-K-6-20AWG-SS316-IEC584-CJT201-1-150-XX-100-200-XX-1/2"NPT(M)-Op 15B,16B

	Suffix Codes	Description
100#TC		
Insulation Type	MI	Mineral Insulated
	BE	Ceramic Beaded
Number of Elements	1	Simplex
	2	Duplex
	3	Triplex
	4	Four
	6	Six
	9	Nine
Element Type	J	Iron Constantan
	K	
	T	
	E	Chromel Constantan
	N	Nicrosil Nisil
	R	PTRH13%_PT
	S	PTRH10%_PT
	B	PTRH30%_PTRH6%
	C	
Sheath Diameter of T	TC 6	6 mm
	8	
	9.5	
Size of Conductor of	TC 12AWG	
	19AWG	
	21AWG	
	XX	
Sheath Material for T	C 316	SS316
	316L	SS316L
	321	
Calibration Standard	ANSIMC96.1	
	DIN43710	· ·
	IEC60584	
Details of CJT	CJT 101	
	CJT 201	Crimp on Pot and Lead Wire
	CJT 301	Brazed Pot & Adjustable Compression Fitting
	CJT 401	
	CJT 501	Crimp on Pot & 1 Side Fixed Connector
	CJT 601	Crimp on Pot & 2 Side Fixed Connector
	CJT 701	
	CJT 701A	Crimp on Pot & 2 Side Spring Loading Connector+Oilseal
	CJT 801	Miniature Plug and Jack
	CJT 901	
	CJT 901A	
	CJT 1001	
	CJT 1002	
	CJT 1003	SS Base Plate OD=41 PCD=33
	CJT 1004	SS Base Plate OD=55 PCD=46 OD
	CJT 1005	
Lead Wire TP	1	
	2	
	3	
4		
	5	
	6	
	7	
	8	
Lead Wire Length*	B	
Length of Insertion*	X	
Length of Element Ale	<u> </u>	
Length of Insert/prob		
Mounting Threads T	T-1/4NPTM	
	T-1/4NPSM	
	T-1/4BSPM	
	XX	,
Mounting Threads P	P-1/4NPTM	
	P-1/4NPSM	
	I	
	XX	

*Please consult our marketing team for any non standard dimensions. Note: For field which are not applicable, select 'XX' or enter '0' whichever is mentioned.

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