

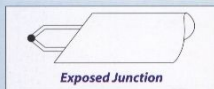
TEMPERATURE SENSOR TYPES

SENSOR TYPES	ANSI SYMBOL	TEMP RANGE (°C)	ACCURACY STANDARD
FE /CONST. (Fe/K)	'J'	0 TO 750	IS2057
COPPER/CONST.	'T'	-200 TO 350	IS2056
CHROMEL/CONST.	'E'	-200 TO 900	-
CHROMEL/ALUMEL (Cr/Al)	'K'	-200 TO 1250	IS2054
Pt/Pt/Rh 10% OR 13%	'S' OR 'R'	0 TO 1450	IS2055
Pt 30% Rh / Pt 6% Rh	'B'	800 TO 1700	-
RTD's Pt 100, 500, 1000	-	-200 TO 850	IS2848

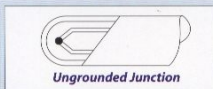
PROTECTION TUBE SELECTION

METAL	OPERATING TEMP. (°C)	STANDARD DIA IN MM
SS304 & SS316	899	3, 5, 6, 8, 10, 12.5, 19, 22, 25
SS310	1093	8, 12.5, 19, 22, 25
INCONEL 600	1149	8, 12.5, 19, 22
CERAMIC	1400	12, 15, 20, 24
RECRYSTALLISED ALUMINA	1700	8, 12, 15, 20, 24

MEASURING JUNCTION TYPES



- USE TO MEASURE TEMP. OF NON CORROSIVE GASES
- JUNCTION EXTENDS BEYOND THE PROTECTIVE SHEATH TO GIVE FAST RESPONSE.



- USE TO MEASURE TEMP. OF CORROSIVE GAS & LIQUID IN ELECTRICAL APPLICATION.
- JUNCTION IS INSULATED FROM PROTECTIVE SHEATH.



- USE TO MEASURE TEMP. OF CORROSIVE GAS & LIQUID FOR HIGH PRESSURE APPLICATION.
- JUNCTION IS WELDED TO PROTECTIVE SHEATH GIVING FASTER RESPONSE THAN THE UNGROUNDED JUNCTION.

COMPENSATING CABLES FOR THERMOCOUPLES

INSULATION	WIRE SIZE	MAX TEMP. (°C)
PVC/PVC	3X24	105
TEFLON/TEFLON	14X36	260
FIBER/FIBER/SS BRAIDED	3X24	485
FIBER/ASBESTOS	3X24	525

EXTENSION CABLES FOR RTD

INSULATION	WIRE SIZE	MAX TEMP. (°C)
PVC/ PVC/ SS BRAIDED	14X36	105
TEFLON/ SILICON RUBBER	7X34	200
TEFLON/ SH/ TEFLON	7X34	260
TEFLON/FIBER/ SS BRAIDED	7X34	350

ROUTINE TEST FOR CERTIFICATION

PARTICULARS	ACCURACY	INSULATION TEST	DIMENSIONAL CHECKING	SURFACE FINISH	ACCURACY STANDARD
TEMP. SENSORS	✓	✓	✓	N.A.	ISI
COMPENSATING CABLES	✓	✓	N.A.	✓	ISI

CALIBRATION OF TEMP. SENSOR

TEMP. RANGE (°C)	MASTER USE	CERTIFIED AGENCY	CALIBRATION MEDIA
50 TO 400	PT 100, A CLASS	IDEMI, MUMBAI	ELECTRICALLY OPERATED CLOSE GRADIENT TUBICAL FURNACE CONTROL BY PID
400 TO 1000	PT/PT/RH 13%	IDEMI, MUMBAI	

Specifications are subject to change without notice due to continuous improvement.