

# STANDARD THERMOCOUPLE 'R' & 'S'

Model : MTC - 02 (with Cold Junction Compensation)



## INTRODUCTION

Reference standard Type 'R' & 'S' thermocouples are made from High purity reference grade platinum and platinum rhodium alloy. It covers Temperature range up to 1500°C. It is commonly used as reference standard to calibrate Industrial thermocouples. This sensors are assembled with 6mm OD, 450mm or 600mm long gas tight 99.7% high Alumina sheath. This type thermocouples, besides the low ageing drift, also offers the advantage of a low basic tolerance value.

This model with Cold Junction compensation probe provides much accurate temperature measurement possibilities, The Cold Junction probe is inserted in to ICE water mixture. This is necessary for the Precision measurement.

## APPLICATIONS

- Industrial, Laboratories
- Calibration Labs Etc.,.

This enable easy comparative calibration in Temperature bath, Furnace, Dry well calibrators, Sensors etc.,.

## FEATURES

- ✓ High Stability
- ✓ Low drift
- ✓ Long life
- ✓ Wide temperature range

## Technical Specifications

Model	MTC - 02
Range	(a) 200 to 1500°C (b) 100 to 1200°C
Type	R, S
Accuracy	Class 1 (0.6°C or 0.1% of Temperature which ever is greater)
Temperature Scale	ITS-90
Sheath material	K-99 grade ceramic
Thermocouple wire dia	0.5mm
Probe dia & Length	6mm OD & 450mm Length
Reference Junction Sheath Dimensions	250mm long, 5mm Diameter
Cable Length between sensor and CJC sensor	700mm
Cable Length from CJC sensor	1.5 metre Length
Handle Dimension	20mm OD & 100mm Length
Calibration certified	ISO/IEC 17025 Accredited 5 point

Note: Due to continuous product improvements, Published specifications may change with out notice

### ORDERING INFORMATION

MTC - 02a - S  
MTC - 02b - R

Type S - S-Type Thermocouple  
R - R-Type Thermocouple

Range: a - 200 to 1500°C  
b - 100 to 1200°C

02 - Model

MTC - Master Thermocouple



## SANSEL INSTRUMENTS AND CONTROLS SANSEL CALIBRATION LABORATORIES

ISO/IEC 17025 Accredited Calibration Laboratory by NABL CC - 2879  
( Thermal, Mechanical, Electro-Technical, Dimension Parameters )

1 / 46 , 3<sup>rd</sup> Main road, Ganga Nagar, MMDA Colony , Maduravoyal , Chennai - 600 095. INDIA  
☎ +91 44 2378 3951, 📞 +91 72999 72085 / 86 / 93, 📞 +91 98401 49928 ✉ enquiry@ sansel.net

🌐 [www.sansel.net](http://www.sansel.net)

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