

Standard Thermocouple

Model 1600 NCJ

The Isothermal range of Thermocouple Standards are the result of 5 years development. The type R and S standards will cover the range for 0°C to 1600°C.

The thermocouples are as follows:

The measuring assembly comprises a 7mm x 300mm or 600mm gas tight 99.7% recrystallised alumina sheath inside which is a 2.5mm diameter twin bore tube holding the thermocouple.

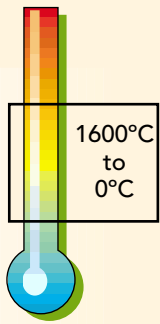
The inner 2.5mm assembly can be removable since some calibration laboratories will only accept fine bore tubed thermocouples and some applications require fine bore tubing.

Insulated noble metal thermocouple wire connects the measuring sheath.

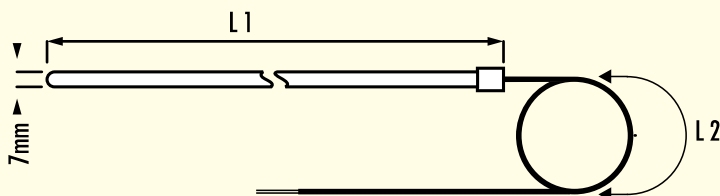
If cold junctions are required please refer to databook 1.

Isotech offer a 4-point UKAS calibration for temperatures up to 1100°C (supplied as standard), or an optional 6-point UKAS up to 1300°C. Both have a table of millivolts to degrees celsius. Alternatively we can arrange for a NPL calibration for temperatures up to 1600°C. Please contact Isotech to obtain current prices for calibration.

Hint:
Use Model 700 Zeref and Model
740 Thermocouple Selector see
databook 4



Types R & S Standard Thermocouple without Cold Junction
Model 1600 NCJ, Premium grade wire,
Gas tight assembly



TYPE R & S NCJ STANDARD THERMOCOUPLE	CODE	L 1	L 2
	/600	600	1400mm
	/300	300	1700mm

Model No.	1600 NCJ
Hot Sheath Temperature Range	0°C to 1600°C (R or S)
Emf Vs Temperature	According to relevant document
Response Time	5 minutes
Hot Junction Dimensions	See diagram
Immersion	100mm min
Case Dimensions	Height 65mm Width 710mm Depth 165mm
Gross Weight	900g
Feature	Removable inner assembly
	The standard thermocouple described can be supplied in the following noble metal combinations

TYPE R: Platinum vs Platinum 13% Rhodium

TYPE S: Platinum vs Platinum 10% Rhodium

How to Order

Model 1600 NCJ R/300

Model 1600 NCJ R/600

Model 1600 NCJ S/300

Model 1600 NCJ S/600

Specify either Type R or S.

UKAS calibration is included see databook 5