

TYPE R & S
STANDARD
THERMOCOUPLE

| CODE | L 1 | L 2 |
|------|-----|--------|
| /600 | 600 | 1150mm |
| /300 | 300 | 1450mm |

1600

Standard thermocouple type R or S,
for Primary laboratory, 0°C to 1600°C

The range of 1600 thermocouple standards are the result of many years development. The type R and S standards will cover the range from 0°C to 1600°C.

- Type R and type S
- Gas tight assembly
- Premium grade wire

Description

The range of 1600 thermocouple standards are the result of many years development. The type R and S standards will cover the range from 0°C to 1600°C.

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

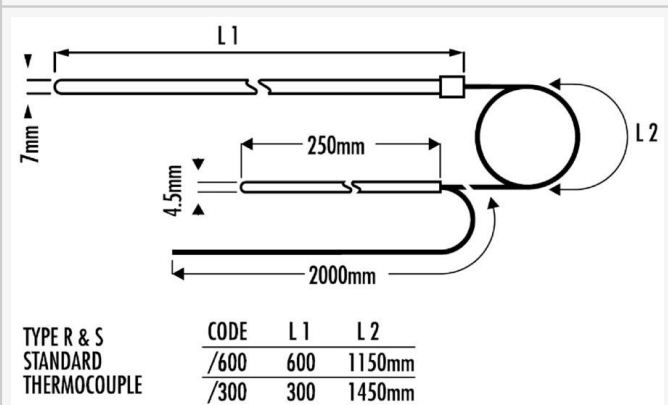
The inner 2.5 mm assembly is removable since some calibration laboratories will only accept fine bore tubed thermocouples and some applications require fine bore tubing.

The covered noble metal thermocouple wire connects the measuring sheath to the reference sheath which is a 4.5 mm x 250 mm stainless steel sheath suitable for referencing in a 0°C reference system. Two thermo electrically free multistrand copper wires (teflon coated) connect the thermocouple to the voltage measuring device.

The thermocouple material is continuous from the hot or measuring junction to the cold, or referencing junction.

Specifications

General specifications

| Temperature range | 0 to 1600°C | | | | | | | | | | | | |
|--|--|--|--------|----|----|--|------|-----|--------|--|------|-----|--------|
| Response time | 5 minutes | | | | | | | | | | | | |
| Hot junction dimensions |  <table border="1"> <thead> <tr> <th>TYPE R & S STANDARD THERMOCOUPLE</th> <th>CODE</th> <th>L1</th> <th>L2</th> </tr> </thead> <tbody> <tr> <td></td> <td>/600</td> <td>600</td> <td>1150mm</td> </tr> <tr> <td></td> <td>/300</td> <td>300</td> <td>1450mm</td> </tr> </tbody> </table> | TYPE R & S STANDARD THERMOCOUPLE | CODE | L1 | L2 | | /600 | 600 | 1150mm | | /300 | 300 | 1450mm |
| TYPE R & S STANDARD THERMOCOUPLE | CODE | L1 | L2 | | | | | | | | | | |
| | /600 | 600 | 1150mm | | | | | | | | | | |
| | /300 | 300 | 1450mm | | | | | | | | | | |
| Cold junction | 250 mm x 4.5 mm | | | | | | | | | | | | |
| Copper extension wires | 2000 mm | | | | | | | | | | | | |
| Immersion | 100 mm min. | | | | | | | | | | | | |
| Case dimensions (H x W x D) | 65 x 710 x 165 mm | | | | | | | | | | | | |
| Gross weight | 900 g | | | | | | | | | | | | |
| Feature | Removeable inner assembly | | | | | | | | | | | | |

Models

| Reference | Type | Temperature range | Cold junction dimensions | Hot junction dimensions (L1) | Connecting cable (L2) | Material |
|------------|------|-------------------|-------------------------------|------------------------------|-----------------------|----------------------------------|
| 1600 R/300 | R | 0°C to 1600°C | 250 mm long x 4.5 mm diameter | 300 mm long x 7 mm diameter | 1450 mm | Platinum vs Platinum 13% Rhodium |
| 1600 S/300 | S | 0°C to 1600°C | 250 mm long x 4.5 mm diameter | 300 mm long x 7 mm diameter | 1450 mm | Platinum vs Platinum 10% Rhodium |
| 1600 R/600 | R | 0°C to 1600°C | 250 mm long x 4.5 mm diameter | 600 mm long x 7 mm diameter | 1150 mm | Platinum vs Platinum 13% Rhodium |
| 1600 S/600 | S | 0°C to 1600°C | 250 mm long x 4.5 mm | 600 mm long x 7 mm | 1150 mm | Platinum vs Platinum |

| | | | | | | |
|--|--|--|----------|----------|--|----------------|
| | | | diameter | diameter | | 10% Rhodium |
|--|--|--|----------|----------|--|----------------|

Models and accessories

1600 Thermocouple Standards, Primary laboratory, 0°C to 1600°C
Delivered in standard with:

- UKAS 4-point certification up to 1100°C

Models with cold junction

| | |
|---------------|-------------------------|
| 1600/R/300/CJ | Type R - Length: 300 mm |
| 1600/R/600/CJ | Type R - Length: 600 mm |
| 1600/S/300/CJ | Type S- Length: 300 mm |
| 1600/S/600/CJ | Type S - Length: 600 mm |

Models without cold junction

| | |
|----------------|-------------------------|
| 1600/R/300/NCJ | Type R - Length: 300 mm |
| 1600/R/600/NCJ | Type R - Length: 600 mm |
| 1600/S/300/NCJ | Type S- Length: 300 mm |
| 1600/S/600/NCJ | Type S - Length: 600 mm |

Certification

| | |
|------|---------------------------------|
| UKAS | UKAS certification up to 1300°C |
| NPL | NPL certification up to 1600°C |