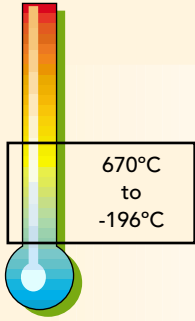


Model 909 25.5 & 100Ω

Working S.P.R.T.s



This economically-priced standard platinum resistance thermometer, Model 909, is the workhorse of calibration laboratories all over the world. Model 909/25.5 has a range of -196°C to 670°C and model 909/100 has a range of -196°C to 550°C. The wide range of Model 909 means that the associated uncertainties are slightly larger than those of the new models developed from it.

MODEL 909/25.5 & 909/100

The resistance element is of pure platinum, coiled and mounted in a strain free construction. The former is of pure alumina material and all parts have been pre-aged to eliminate contamination and strain.

All joints are welded to minimise resistance changes. The leads are brought to a handle assembly where they are connected to a low loss cable, 2 metres long and screened.

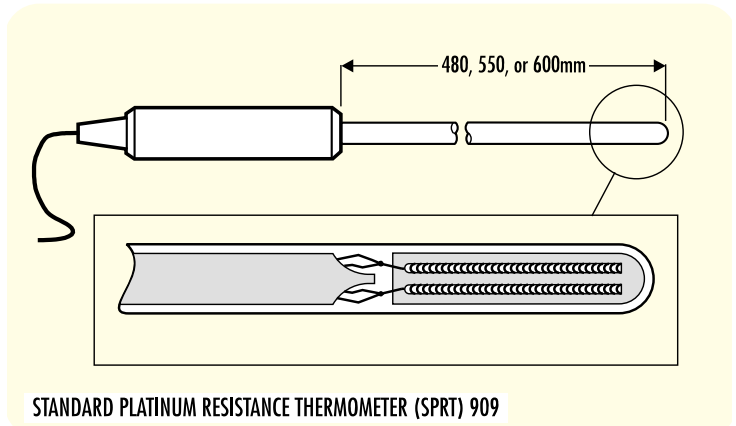
The thermometer sheath is of quartz material which is filled with dry air during construction. Three lengths are available, standard length 480mm, extra length 550mm or maximum length 600mm.

The model 909 is supplied with a calibration certificate giving R_{TPW} and W_{ga} . Alternatively we can provide a complete calibration certification in accordance with our UKAS schedule (see databook 5).

For transportation and storage the Model 909 is supplied in its own attractive carrying case.

A 909F having faster settling time is now available, contact Isotech for details.

Model No.	909/25.5	909/100
Measuring Range	-196°C to 670°C	-196°C to 550°C
Nominal Resistance	25.5Ω at 0°C	100Ω
Recommended Maximum Current mA	1	0.5
Nominal Sensitivity Ω/°C	0.1	0.4
Resistance Ratio	$W_{ga} > 1.11807$ as required by ITS-90	
Self-heating	1mK/25 microwatts	
Sealed-in gas	Dry air	
Stability	Depends upon the temperature range of use. Typical annual stability, see table on page 35	
Internal Leads	4 wire-platinum	
External Leads	Silver-plated multistrand wires in a low-loss insulation cable terminating in gold-plated terminals.	
Length	480mm standard 550mm to order (E) 600mm to order (L)	
Nominal diameter	7.5mm	
Options		
	909E/25.5 or 100 ohm	
	909L/25.5 or 100 ohm	
	909F/25.5 or 100 ohm	
How to Order		
Model 909/25.5 or 100 ohm	Please specify length required State with UKAS Calibration or without UKAS Calibration.	



STANDARD PLATINUM RESISTANCE THERMOMETER (SPRT) 909

3 Lengths. Wide Range. Proven Design

