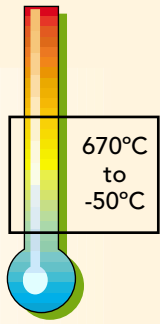


Model 935-14-77 25.5Ω

Working S.P.R.T.s



This economically priced standard platinum resistance thermometer, Model 935-14-77, is the metallic sheathed version of the Model 909, the workhorse of calibration laboratories all over the world. Model 77 has a range of -50°C to 670°C.

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 metallic material which is filled with dry air during construction. It is available in a standard length of 450mm.

The model 77 is supplied with a calibration certificate giving R_{TPW} and W_{ga} , plus a comprehensive handbook.

For transportation and storage the Model 77 is supplied in its own attractive carrying case.

Please Note:

The incanol sheath ensures that the 77 will not break. However, internally it has the same construction as a standard platinum resistance thermometer and must be handled accordingly.

Temperature	(°C)	Uncertainty (±)				
		Range 1	Range 2	Range 3	Range 4	Range 5
BP Nitrogen	-196		10 mK	10 mK	10 mK	
TP Mercury	-38.8344	2 mK	2 mK	2 mK	5 mK	
TP Water	0.01	1 mK	1 mK	2 mK	5 mK	10 mK
MP Gallium	29.7646	2 mK				
FP Indium	156.5985		3 mK			
FP Tin	231.928		3.5 mK			
FP Zinc	419.527			3.5 mK	5 mK	10 mK
FP Aluminium	660.323				10 mK	25 mK
FP Silver	961.78					40 mK

Note: TP = Triple Point
FP = Freezing Point
MP = Melting Point
BP = Boiling Point



Model No.	935-14-77 / 25.5
Measuring Range	-50°C to 670°C
Nominal Resistance	25.5Ω at 0°C
Recommended Maximum Current mA	1
Nominal Sensitivity Ω/°C	0.1
Resistance Ratio	$W_{ga} \geq 1.11807$ 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 above
Internal leads	4 wire-platinum
External Leads	Silver-plated multistrand wires in a low-loss insulation cable terminating in gold-plated terminals.
Length	450mm
Nominal Diameter	6mm
Options	
	35mm sensing length is also available
How to Order	
Model 935-14-77	State with UKAS Calibration or without UKAS Calibration.

