



**HIGH
ACCURACY
PRT'S**

Platinum Resistance Thermometer



- The most common & important application of High accuracy Platinum Resistance Thermometers (PRTs) is temperature measurements in calibration /metrological, laboratories , R&D applications where accuracy is of utmost importance It has wide applications for dry-wells & temperature baths.
- Low Drifts, high temperature measurement range makes the instrument versatile for wide applications , high accuracy PRTs are very Sensitive to mechanical shocks, Tunix made a special design which made it more rugged in absorbing mechanical shocks & vibrations

Model No	Outer Diameter (XX) mm	Probe length (XXX) mm	Extension cable length (XX) Mtr
TPRT A	6.0	450	1.5
TPRT 113 A	-	-	-
TPRT 115 A	-	-	-
TPRT 110 A	-	-	-

Example : TPRT A-6-450-1.5

Can be provided as per customer requirement

Note: kindly specifically mention cable termination(Flying leads/ USB Connector)



**Accurate
& versatile
Temperature
measurements
for metrological
applications**

Models & Technical Description

Parameter	Model TPRT A	Model TPRT 113A	Model TPRT 115 A	Model TPRT 110A
Thermal Drift	± 0.05 °C at 0 °C after 50 Hrs at/above 200 °C , or minimum ± 0.07 °C Per Year whichever is higher	± 0.05 °C at 0 °C after 50 Hrs at/above 200 °C , or minimum ± 0.07 °C Per Year whichever is higher	± 0.05 °C at 0 °C after 50 Hrs at/above 200 °C , or minimum ± 0.07 °C Per Year whichever is higher	± 0.05 °C at 0 °C after 50 Hrs at/above 200 °C , or minimum ± 0.07 °C Per Year whichever is higher
Tolerance as per IEC 60751	-90 °C ---- ± 0.33 °C 0 °C ---- ± 0.15 °C 100 °C ---- ± 0.35 °C 200 °C ---- ± 0.55 °C 300 °C ---- ± 0.75 °C 400 °C ---- ± 0.95 °C	-90 °C ---- ± 0.25 °C 0 °C ---- ± 0.10 °C 100 °C ---- ± 0.27 °C 200 °C ---- ± 0.43 °C 300 °C ---- ± 0.60 °C 400 °C ---- ± 0.77 °C	-90 °C ---- ± 0.14 °C 0 °C ---- ± 0.06 °C 100 °C ---- ± 0.16 °C 200 °C ---- ± 0.43 °C	-90 °C ---- ± 0.07 °C 0 °C ---- ± 0.03 °C 100 °C ---- ± 0.08 °C 200 °C ---- ± 0.43 °C

- Temperature Range -38 to 400°C.
- Resistance at 0°C: Nominal 100 Ω.
- Temperature Coefficient: 0.00385 Ω/ °C.
- Sheath Material: SS-316.
- Dimension: Standard or can be provided as per customers requirement.
- Resistance at 0°C: Nominal 100 Ω.
- Extension leads : 1.5 mtr. long teflon Insulated silver plated copper cable (4 wire) with flying leads/USB Connector or can be provided as per customers requirement.
- Handle Dimension: 15 mm (OD) X 100 mm(L).
- Calibration : Standard at 5 points at NABL Accredited Lab (Optional).
- Short Term Stability: ±0.02 °C.