PORTABLE RTD CALIBRATOR

CALsys -196/-80 offers ultra low temperature range from -190 to -80°C. It is a highly stable standard source for calibrating Thermocouples / RTD. It has been designed for low temperature range calibration and find application in the glass, pharma, electrical power, automotive & material processing industries. The comparison volume is a metallic block of aluminium having dimension 25mm diameter with 300 mm long which fixed into the liquid nitrogen container for calibration of RTD & thermocouple. The temperature of the calibrator is set and controlled by a self tuned PID controller with automatic super fine adjustment.

**SPECIFICATIONS**

- **Temperature Range**: -190 to -80°C
- **Temperature Resolution**: ±1.0°C
- **Stability**: ±0.1°C at -190°C  
  ±0.1°C at -130°C  
  ±0.1°C at -80°C
- **Uniformity**: ±0.2°C at -190°C  
  ±0.15°C at -130°C  
  ±0.17°C at -80°C
- **Controlling Sensor**: RTD PT100
- **Method of Control**: Digital self tuned PID Controller
- **Insert Construction**: Dia 25 x 300 mm long (2 x 6 mm & 2 x 8 mm holes) of 300 mm insertion depth
- **Time to Reach Max Temp**: 30 Mins
- **Computer Interface**: RS - 232
- **Operating Temperature**: 20 to 45°C
- **Power Requirement**: 230 VAC, 300 W
- **Dimensions of Container**: 580(H) x 280(Dia)
- **Nitrogen Container**: 10Ltr.
- **Dimension of Control Panel**: 270(H)x380(W)x270(D)
- **Weight**: 15Kg (without packing)

**KEY FEATURES**

- Large Immersion Depths
- Wide Operating Range (-190 to -80°C)
- High Stability
- PC interfacing
- Simple to use and cost effective
- Separate control box

**STANDARD ACCESSORIES**

- Reference Standard RTD
- NABL accredited calibration certificate - 3 point
- Software - Cal Soft including for setting bath temperature and monitoring the PV. Graphical representations of PV/TIME with 2 hours data logging.
- Operational Manual

**OPTIONAL ACCESSORIES**

- TEMPPMET 08, TEMPPMET 09
- Extra Equalizing Block........Part No. EQ2