

Dry Block Calibrators

Wide Temperature Range

CALsys -190/-80 offer a wide temperature range from -190 °C to -80 °C

Lightweight, portable

The CALsys -190/-80 block is ideal for Industrial/ Laboratory field use. It only weights about 8 kg, and it is small enough to carry around.

Accuracy and performance

The CALsys -190/-80 is an easily portable unit that also provides excellent calibration accuracy with stability $\pm 0.1^\circ\text{C}$ at -190 °C.

Accredited calibration

Each CALsys -190/-80 is delivered with an accredited calibration certificate.

Computer Interface

The communication port(RS-232/ USB) enables communication with selected CALsys -190/-80 calibrators for automation calibration and documentation thus it made documentation easy.

CALSYS -190/-80

Portable RTD Calibrator for Industrial/
Laboratory Field Use



CALsys -190/-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.

With the Tempsens make Compact Temperature Calibrator, you have chosen an extremely effective instrument which we hope will live up to all your expectations. This is a fast, timesaving, and reliable true industrial temperature calibrator designed for on-site use.

During the past several years, we have acquired extensive knowledge of industrial temperature calibration. This expertise is reflected in our products which are all designed for daily use in an industrial environment.

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
Uniformity	±0.2°C at -190°C
	±0.15°C at -130°C
	±0.17°C at -80
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)

ACCESSORIES

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

KEY FEATURE

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

OPTIONAL ACCESSORIES

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