OneTemp pty ltd
MEASURE | CONTROL | RECORD

TEMPSENS

Dry Block Calibrators

Wide Temperature Range

Calsys -100/40 offer a wide temperature range from -100°C to 40°C

Lightweight, portable

The Calsys -100/40 block is ideal for Industrial/ Laboratory field use. It only weights about 11 kg, and it is small enough to carry around.

Speed

The Calsys -100/40 extremely quick to reach various temperatures, i.e. it cools down to -100°C in 90 minutes and heats up room temp to +40°C in 20 minutes. This saves time and increases productivity.

Accuracy and performance

The Calsys -100/40 is an easily portable unit that also provides excellent calibration accuracy with stability ± 0.05°C.

Cooling Technology

Tempsens provide low temperature dry block calibrator with use of FPSC system.

FPSC system able to cool down calibration block upto -100°C with minimum power.

Accredited calibration

Each Calsys -100/40 is delivered with an accredited calibration certificate.

Computer Interface

The communication port (RS-232/ USB) enables communication with selected Calsys -100/40 calibrators for automation calibration and documentation thus it made documentation easy.

Calsys -100/40

Portable, Lightweight, highly accurate low temperature FPSC system based Calibrator for Industrial/ Laboratory field use

Calsys -100/40 offers easy to use portable low temperature calibrator with temperature range from -100 to 40°C. It is a highly stable standard furnace for calibrating RTD. This calibrator can be used on site for high temperature calibration and also find application in aerospace, oil gas petrochemical, pharmaceutical industry, electric power, automotive and material process industry. The comparison volume is a metallic fixed block of special material, which has a fixed insert with 120mm long. Low temperature dry block furnace based on FPSC cooling system. This model provides special design isothermal enclosure which can calibrate sensor against the calibrator. Temperature of the calibrator is set and controlled by a self tuned PID controller with automatic super fine adjustment. Our newly designed Calsys -100/40 model offers better esthetic design and performance wise upgraded to next level.

With the Tempsens make Compact Temperature Calibrator, you have chosen an extremely effective instrument which we hope will live up to all your expectations.

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

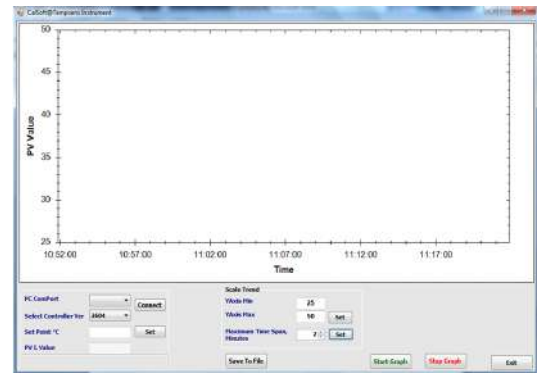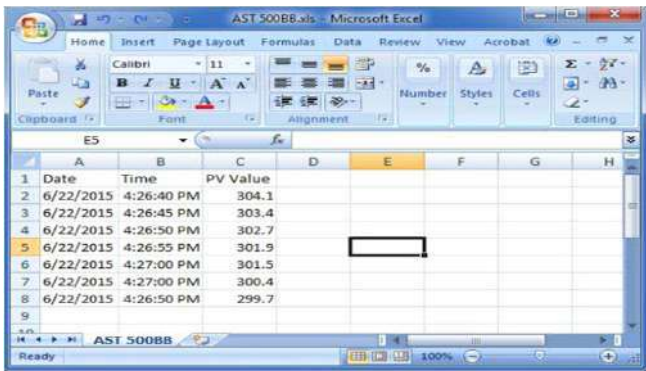|	
Temperature range	-100°C to 40°C (at 20°C)
Stability	±0.05°C at -100°C
	±0.03°C at 0°C
	±0.05°C at 40°C
Radial uniformity	±0.1°C at -80°C
Immersion depth	120 mm
Fixed insert dimensions	6.5 mm x 3 holes
Method of Control	Self tunned PID controller
Cooling time	90 Min (Ambient to -100°C)
Resolution	0.1 °C
Display	LCD, °C or °F user-selectable
Size (H x W x D)	380(H) x 170(W) x 188(D) mm
Weight	11Kg
Power requirements	230 VAC, 500W(50 Hz)
Computer interface	RS - 232
Calibration	Accredited calibration certificate provided
Environmental operating conditions	5 °C to 20 °C, 0 % to 90 % RH (non-condensing)
Specifications valid in environmental conditions	5°C … 20°C

Note : Customized options available as per customer requirement.

Inserts for Calsys -100/40 models

Inserts for Calsys -100/40 are made of aluminum. All specifications on hole size based on outer diameter of the sensor under test. We also offer customized hole size based on Customer requirements. Insert Model Description

Inserts	Description
Ci1	Multihole fixed, 1x8 mm, 2x 6.5mm

SOFTWARE

• CalSoft including for setting bath temperature and monitoring the PV. Graphical representations of PV/TIME with 2 hours data logging.

MASTER SENSOR

• Reference Standard RTD Part no. TPRT- A- 300.

• NABL accredited calibration certificate - 3 point
• Operational Manual

CARRY CASE

• Tempsens makes customized carry case is a rugged, safe perfectly designed to carry our new CALsys -100/40 calibrator and different accessories.

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