

Liquid Calibration Bath

Wide Temperature Range

Calsys -80/50 offer a wide temperature range from -80 °C to 50 °C

Large immersion depth

The Calsys -80/50 is ideal for Industrial / Laboratory field use. Large immersion depth 200mm with 120x120 access opening and wide operating range.

CFC free refrigerants

The Calsys -80/50 extremely highly accurate liquid stirrer bath with free of CFC refrigerants. CFC refrigerant is immensely damaging to the environment. CFC damages the Ozone layer and contributes directly to the destruction of our environment.

Accuracy and performance

The Calsys -80/50 is an easily portable unit that also provides excellent calibration accuracy with stability ± 0.05 °C at 50°C.

Accredited calibration

Each Calsys -80/50 is delivered with an accredited calibration certificate

Computer Interface

The communication port(RS- 232) enables communication with selected Calsys -80/50 calibrators for automation calibration and documentation thus it made documentation easy.

Calsys -80/50

Highly accurate Liquid Calibration bath for Industrial/ laboratory field use



Calsys -80/50 offers easy to use liquid temperature calibrator with high temperature range from -80 to 50°C. It is a highly stable standard furnace for calibrating thermocouples / RTD. It provide superior thermal environment for probe immersion as no air gap exist between the probe and the medium, thermal coupling is therefore much better than the alternatives described and the stirring results in very even heat distribution throughout the medium. Methanol is used for temperature below 0°C water from 0 to 80 and silicon oil up to 250. It has large tank which filled with methanol. The liquid is heated or cooled to the desired temperature. We have seven types of liquid baths. The volume is 9 ltr. And access opening is 120X120mm with 200mm depth. The temperature of the calibrator is set and controlled by a self tuned PID controller with automatic super fine adjustment. Our newly designed Calsys -80/50 model offers better esthetic design and performance wise upgraded to next level.

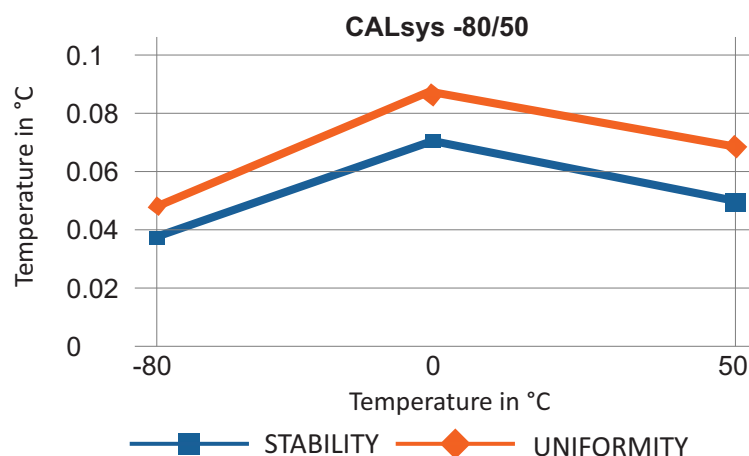
With the Tempsens make Compact Temperature Calibrator, you have chosen an extremely effective instrument which we hope will live up to all your expectations. This is a fast, timesaving, and reliable true industrial temperature calibrator designed for on-site use.

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	-80 °C to 50 °C
Accuracy	±0.5 °C
Stability	±0.04°C at 50°C
	±0.07°C at 0°C
	±0.05°C at 50°C
Uniformity	±0.05°C at -80°C
	±0.09°C at 0°C
	±0.07°C at 50°C
Volume	9 Ltr
Immersion depth	200mm
Access opening	120X120 mm
Method of Control	Self tuned PID controller
Cooling time	60 Min (room temperature to -80°C)
Resolution	0.1 °C
Display	LCD, °C or °F user-selectable
Size (H x W x D)	630(H) x 1200(W) x 500(D) mm
Weight	114Kg
Power requirements	230 VAC, 2 KW(50 Hz)
Computer interface	RS - 232
Calibration	Accredited calibration certificate provided
Environmental operating conditions	0 °C to 40 °C, 0 % to 90 % RH (non-condensing)
Specifications valid in environmental conditions	13 °C ... 33 °C

Graphical Representation



Insert construction

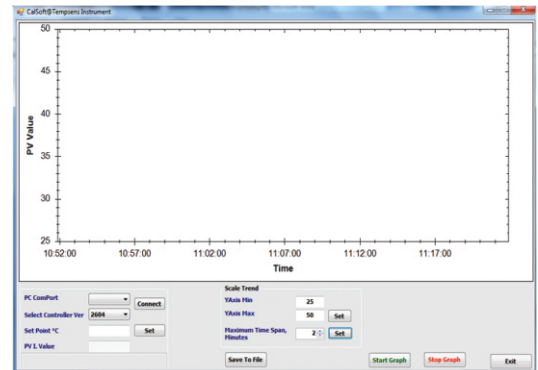
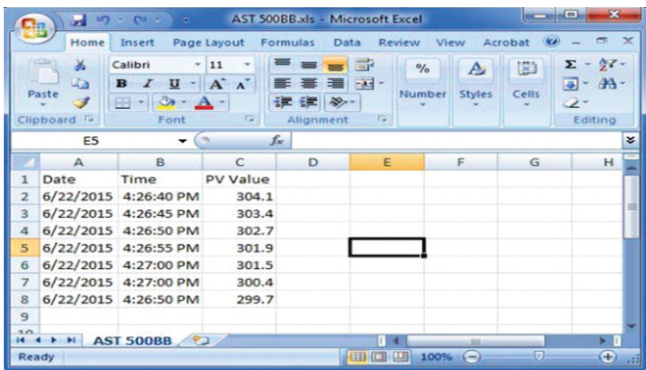
Inserts for Calsys -80/50 models

Inserts for Calsys -80/50 is about 120X120 mm access opening with 200mm insertion depth. All specifications based on outer diameter of the sensor under test. We also offer customized hole size based on Customer requirements.

Insert Model Description

Hole Size	Description
Ci1	Multihole, 4 x 6.5 mm
Ci2	Multihole, 4 mm,6 mm,8 mm,10 mm
Ci3	Multihole, 2x3 mm, 2x4 mm,6 mm
Ci4	Multihole, 8 x 3 mm
Ci5	Special (Customized)

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

BLACK BODY CAVITY

The calibration of infrared (IR) thermometers can be performed with black body cavity included with calsys -80/50 calibrator. The black body has special design and structure that ensure a high emissivity and accurate result.

