

Dry Block Calibrators

Wide Temperature Range

CALsys 650 offer a wide temperature range from 50 °C to 650 °C

Lightweight, portable

The CALsys 650 block is ideal for Industrial/ Laboratory field use. It only weighs about 8 kg, and it is small enough to carry around.

Speed

The CALsys 650 extremely quick to reach various temperatures, i.e. it cools down to 100 °C in 80 minutes and heats up room temp to +650 °C in 20 minutes. This saves time and increases productivity.

Accuracy and performance

The CALsys 650 is an easily portable unit that also provides excellent calibration accuracy with stability $\pm 0.04^{\circ}\text{C}$ at 650 °C.

Accredited calibration

Each CALsys 650 is delivered with an accredited calibration certificate.

Computer Interface

The communication port(RS-232/ USB) enables communication with selected CALsys 650 calibrators for automation calibration and documentation thus it made documentation easy.

CALSYS 650

Portable, Lightweight, Highly Stable Temperature Calibrator for Industrial/ Laboratory Field Use



CALsys 650 offers easy to use portable temperature calibrator with medium temperature range from 50 to 650°C. It is a highly stable standard furnace for calibrating thermocouples / RTD. This calibrator can be used on site in workshops, Test and measurement rooms as well as laboratories. The comparison volume is a metallic block of special material, which has a diameter of 32mm and 150mm long. The temperature of the calibrator is set and controlled by a self tuned PID controller with automatic super fine adjustment. Our newly designed CALsys 650 model offers better esthetic design and performance wise upgraded to next level. This model offers better cooling time which is 2 times faster than our old model and has stability 30% better than the old CALsys 650 model. Hence our new model not only saves important time for our valuable customer but also provides better performance.

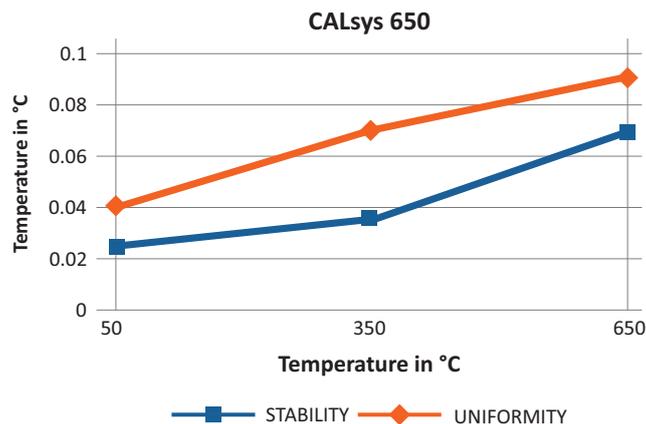
With the Tempsens make Compact Temperature Calibrator, you have chosen an extremely effective instrument which we hope will live up to all your expectations. This is a fast, timesaving, and reliable true industrial temperature calibrator designed for on-site use.

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	50 °C to 650 °C
Accuracy	±1 °C
Stability	±0.01°C at 50°C
	±0.02°C at 350°C
	±0.03°C at 650°C
Axial uniformity at 40 mm (1.6 in)	±0.2°C at 50°C
	±0.5°C at 350°C
	±0.9°C at 650°C
Radial uniformity	±0.04°C at 50°C
	±0.07°C at 350°C
	±0.09°C at 650°C
Loading effect (with a 6.35 mm reference probe and three 6.35 mm probes)	0.04 °C
Hysteresis	0.02 °C
Immersion depth	120 mm
Insert OD dimensions	32 mm
Heating time	20 Min
Cooling time	80 Min (650 °C to 100 °C)
Resolution	0.1 °C
Display	LCD, °C or °F user-selectable
Size (H x W x D)	325(H) x 185(W) x 265(D) mm
Weight	8 Kg
Power requirements	230 VAC, 1 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

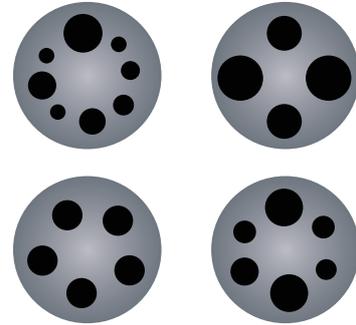


ACCESSORIES

Inserts for CALsys 650 models

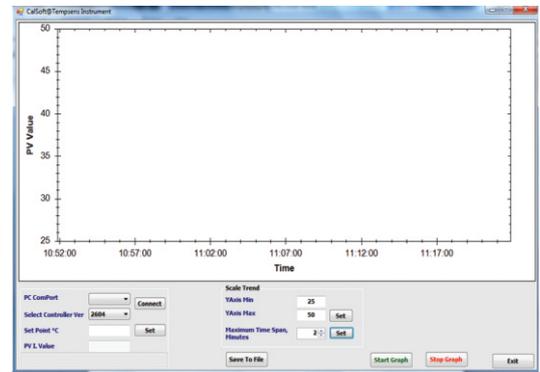
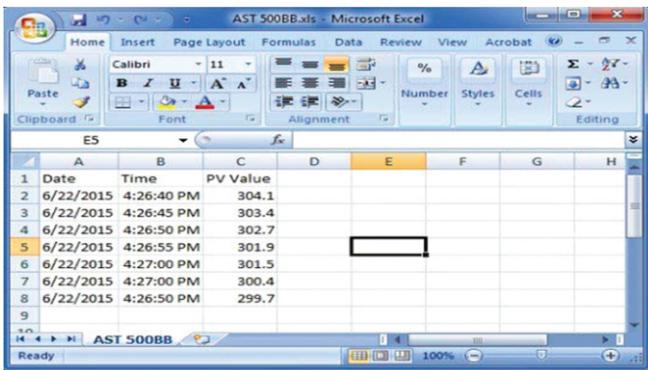
Inserts for CALsys 650 are made of Brass. All specifications on hole size based on outer diameter of the sensor under test. We also offer customized hole size based on Customer requirements.

Inserts	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 mm, 10 mm, 2x3 mm, 1x4 mm
Ci5	Multihole, 8 x 3 mm
Ci6	Special (Customized)



Customized Equalizing Block....Part No. EQ1

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 Thermocouple ('K' Type T/C)..... Part No. TTCK-300



- NABL accredited calibration certificate - 3 point
- Operational Manual

CARRY CASE



- Tempens makes customized carry case is a rugged, safe perfectly designed to carry our new CALsys 650 calibrator and different accessories.