

Dry Block Calibrators

Wide Temperature Range

CALsys 1200 & CALsys 1200 Autocal offer a wide temperature range from 250 °C to 1200 °C

Lightweight, portable

The CALsys 1200 & CALsys 1200 Autocal block is ideal for Industrial/Laboratory field use. It only weight about 13kg and it is small enough to carry around.

Speed

The CALsys 1200 & CALsys 1200 Autocal extremely quick to reach various temperatures, i.e. it cools down to 250°C in 150 minutes and heats up room temp to +1200 °C in 60 minutes.

Accuracy and performance

The CALsys 1200 & CALsys 1200 Autocal is an easily portable unit that also provides excellent calibration accuracy with stability $\pm 0.3^{\circ}\text{C}$ at 1200 °C.

Accredited calibration

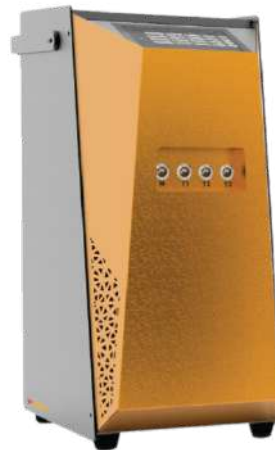
Each CALsys 1200 & CALsys 1200 Autocal is delivered with an accredited calibration certificate.

Computer Interface

The communication port(RS-232/ USB) enables communication with selected CALsys 1200 calibrators for automation calibration and documentation thus it made documentation easy.

CALsys 1200 & CALsys 1200 Autocal

Highly accurate & Automatic Dry Block Calibrator for Industrial/Laboratory field use



CALsys 1200 Autocal



CALsys 1200

CALsys 1200 & CALsys Autocal offers easy to use portable temperature calibrator with high temperature range from 250 to 1200°C. It is a highly stable standard furnace for calibrating thermocouples / RTD. This calibrator can be used on site for high temperature calibration and also find application in glass, electric power, automotive and material process industry. The comparison volume is a metallic block of special material, which has a diameter of 37mm and 215mm 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 1200 model offers better esthetic design and performance wise upgraded to next level. The CALsys -1200 Autocal is an automatic temperature calibration system for the Thermocouple and RTD's. The system consists of Temperature bath and PC software, which together contribute to the whole cycle of auto calibration process. The system accept 4 channels, 4 Thermocouples or 4 RTD's. The connection for these channels through special type of locking connectors. The channel configuration can be done with LCD display via touch screen keypad. The thermocouple microvolt & RTD ohm reading for each channel is monitored with CJC compensation. After the calibration process complete the PC software generates a report of actual calibrated values for the inputs.

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.

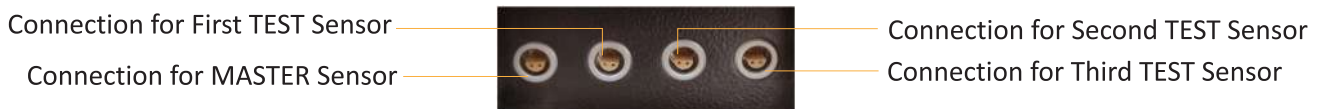
SPECIFICATIONS

CALsys 1200 Autocal & CALsys 1200

Temperature range	250 °C to 1200 °C
Accuracy	±2 °C
Stability	±0.1 °C at 250°C
	±0.2°C at 700°C
	±0.3°C at 1200°C
Radial uniformity	±0.20°C at 250°C
	±0.24°C at 700°C
	±0.36°C at 1200°C
Immersion depth	160 mm
Insert OD dimensions	37 mm
Method of Control	Self tuned PID controller
Heating time	60 Min
Cooling time	150 Min (1200 °C to 250 °C)
Resolution	0.1 °C up to 999°C
Display	LCD, °C or °F user-selectable
Size (H x W x D)	405(H) x 205(W) x 285(D) mm
Weight	13Kg
Power requirements	230 VAC, 1.5 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
Input (CALsys 1200 Autocal)	Four channels(one master and three test sensors).high quality universal LEMO connector suitable both for T/C (J, K, N, T, R, S, B type) and Rtd
Software (CALsys 1200 Autocal)	The calibrator will be provided with software for data recording (Manual Mode) and Test Certificate generation in Auto Mode
Data logging (CALsys 1200 Autocal)	Data logging facility with logged data export to computer through LAN port (optional USB)

SENSOR CONNECTION (CALsys 1200 Autocal)

The Calibration system provides calibration up to four channels i.e. one master and three test sensors . We use high quality universal LEMO connector i.e. suitable both for T/C and Rtd.

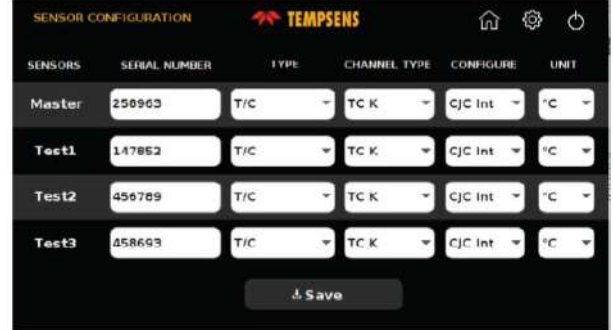


USER INTERFACE (CALsys 1200 Autocal)

Home Screen: In this screen user can select sensor configuration (for selection of type of sensors), mode of operation (auto / manual) and data transfer (file transfer). This window also shows the ongoing process.

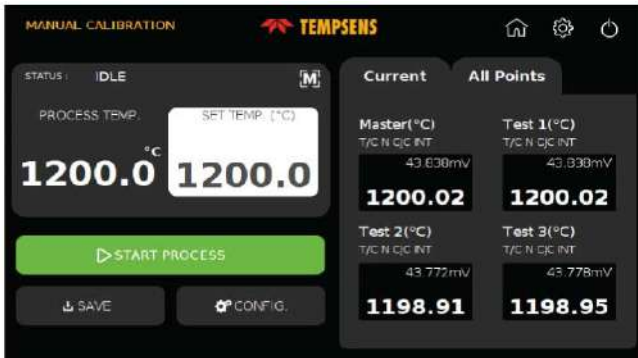


Sensor Configuration: In this screen user select the sensors Thermocouple (J, K, B, N, R, S, T type) / RTD(PT 100, PT 1000, PT 50 etc.) for calibration with their serial number and temperature unit (C/F/K).

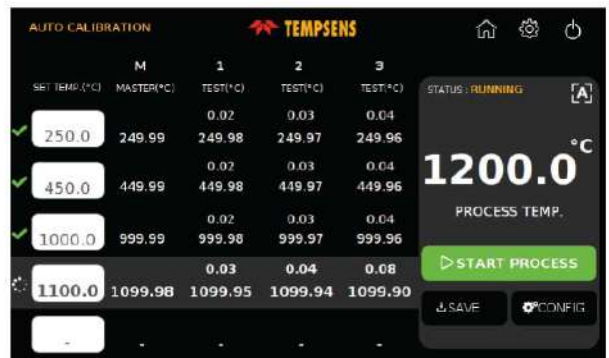


CALSYS 1200 Autocal have two operating modes i.e. Manual and Auto mode

Manual Mode: In this screen user set the temp. Point for calibration and on clicking start process button the process of calibration starts



Auto Mode: In this screen user sets the temperature Points for calibration (Max 5 Points)



SOFTWARE : Tempsens make Easy to use Customized software enables end user to access temperature data both for Manual mode and Automode



AUTOMATIC CALIBRATION REPORT GENERATION

- Tempsens can offer customized data saving option both for manual and Automode.
- After completion manual/Automode automatic calibration report can be generated at PC side based on pre define format.

CALIBRATION REPORT (TEMP MEASURING INST.)

CUSTOMER			Serial No:-	1336/1
INSTRUMENT Desc :		INST. SR. NO :		
MAKE		MODEL NO.		
RANGE CALIBRATED	400.00	°C	LAB CONDITION (TEMP) :- 25 +/- 5 °C	
DATE OF CALIBRATION	2017-08-24	RECOMMENDED RECALIBRATION DATE :	2018-08-24	

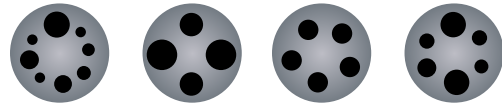
SR.NO	STANDARD TEMP °C	MASTER TEMP °C	ACTUAL TEMP °C	ERROR IN °C (R. B.T. MASTER)	REMARK
1	400.00	420.23	208.91	-211.32	
2	410.00	427.82	209.80	-218.02	
3					
4					
5					

ACCESSORIES

Inserts for CALSYS 1200 Autocal & CALSYS 1200 models

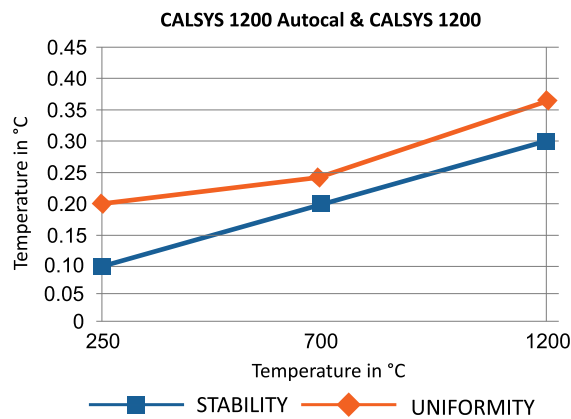
Inserts for Calsys 1200 Autocal & CALsys 1200 are made of special material. All specifications on hole size based on outer diameter of the sensor under test. We also offer customized hole size based on Customer requirements.

Inserts	Description
Ci1	Multihole, 4 x 6.5 mm
Ci2	Special (Customized)

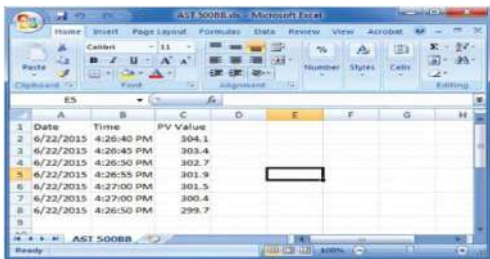


Customized Equalizing Block....Part No. EQ1

STABILITY & UNIFORMITY



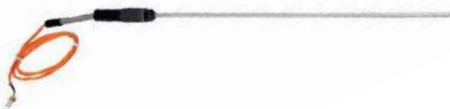
SOFTWARE



- 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 ('N' Type T/C).....
Part No. TTCN-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 Calibrator & different accessories.