

High Temperature Dry Block Furnace

Wide Temperature Range

Autocal 1200L & CALsys 1200L offer a wide temperature range from 300 °C to 1200 °C

Simple to use

The 1200L Autocal & CALsys 1200L block is ideal for Industrial/ Laboratory field use. it is simple enough to testing and calibration uses.

Accuracy and performance

The 1200L Autocal & CALsys 1200L is an easy to use also provides excellent calibration accuracy with stability $\pm 0.35^{\circ}\text{C}$ at 1200°C.

Accredited calibration

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

Computer Interface

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

Calsys 1200L Autocal 1200L

Highly accurate temperature Calibrator for Industrial / Laboratory field use



CALSYS -1200L

CALsys -1200L Autocal

Autocal 1200L & CALsys 1200L offers easy to use temperature calibrator with high temperature range from 300 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 160mm 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 1200L model offers better esthetic design and performance wise upgraded to next level. The CALsys-1200L 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.

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.

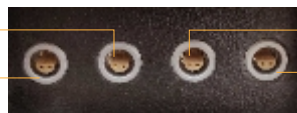
SPECIFICATIONS

Autocal 1200L & CALsys 1200L

Temperature range	300 °C to 1200 °C
Stability	±0.1°C at 300°C
	±0.2°C at 800°C
	±0.35°C at 1200°C
Radial uniformity	±0.15°C at 300°C
	±0.25°C at 800°C
	±0.4°C at 1200°C
Controlling sensors	R type duplex
Stabilization time	15 to 20 mins
Immersion depth	160mm
Insert OD dimensions	37 mm
Method of Control	Self tuned PID controller
Heating time	1.5 Hrs
Resolution	1 °C
Display	LCD, °C or °F user-selectable
Size (H x W x D)	590(H) x 450(W) x 530(D) mm
Weight	55Kg
Power requirements	230 VAC, 50 Hz
Computer interface	RS - 232/USB
Calibration	Accredited calibration certificate provided (Optional)
Environmental operating conditions	0 °C to 40 °C, 0 % to 90 % RH (non-condensing)
Specifications valid in environmental conditions	13 °C ... 33 °C
Input (Autocal 1200L)	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 (Autocal 1200L)	The calibrator will be provided with software for data recording (Manual Mode) and Excel generation in Auto Mode
Data logging (Autocal 1200L)	Data logging facility with logged data export to computer through LAN port (optional USB)

SENSOR CONNECTION (Autocal 1200L)

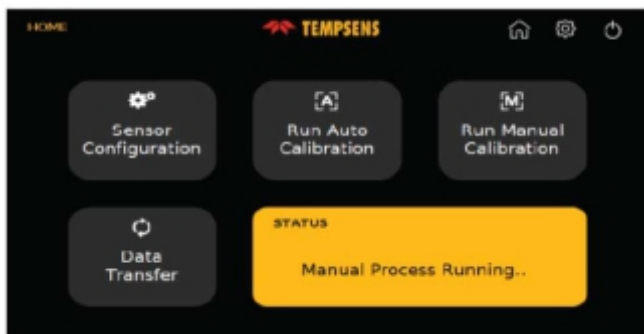
Connection for First TEST Sensor
Connection for MASTER Sensor



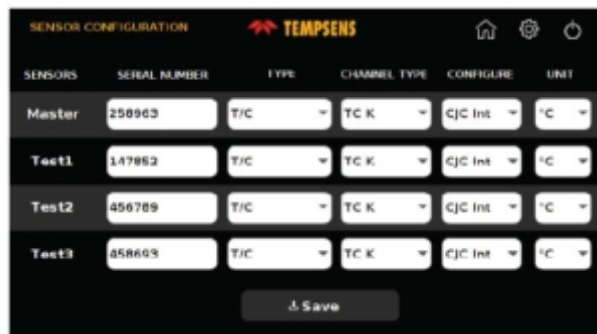
Connection for Second TEST Sensor
Connection for Third TEST Sensor

USER INTERFACE (Autocal 1200L)

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.

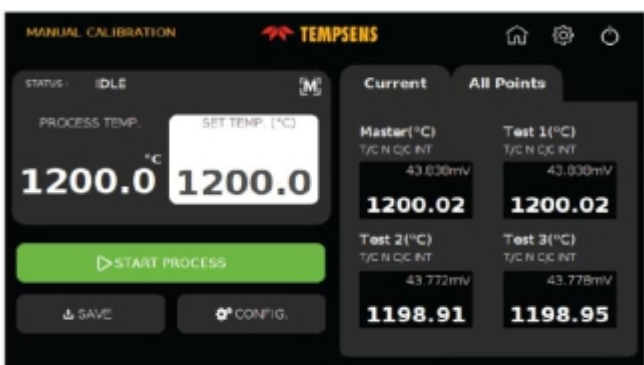


Sensor Configuration: In this screen user select the sensors Thermocouple (J, K, B, N, R, S, T type) / RTD(PT 100, PT 1000, PT50 etc.) for calibration with their serial number and temperature unit (C/F/K).

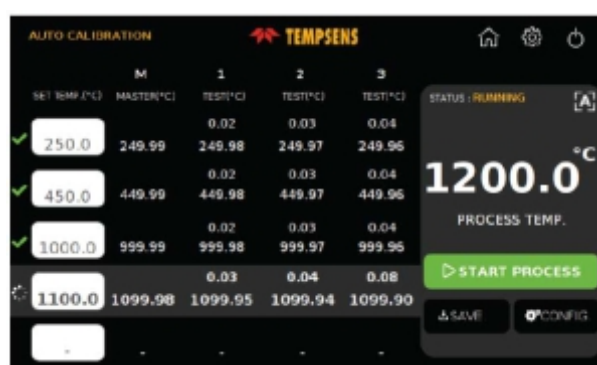


Autocal 1200L have two operating modes i.e. Manual and Auto mode

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 (Optional)

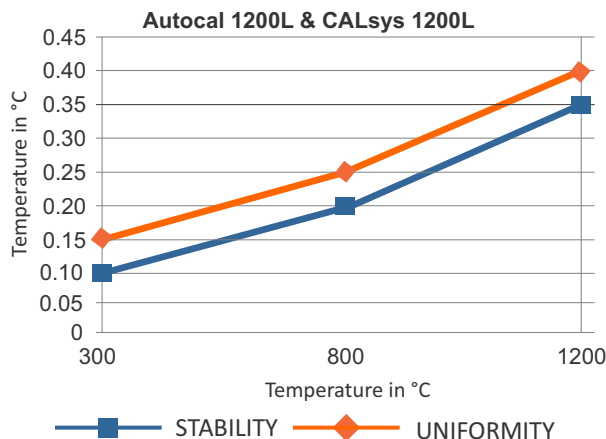
- Tempsens can offer customized data saving option both for manual and Automode.
- After completion manual / Automode automatic calibration report can be generated at PC side based on predefine format.

CALIBRATION REPORT (TEMP MEASURING INST.)

CUSTOMER			Serial No.:	13361
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 (% OF MASTER)	REMARK
1	400.00	420.23	208.01	-211.32	
2	410.00	427.82	209.80	-218.02	
3					
4					
5					

STABILITY / UNIFORMITY



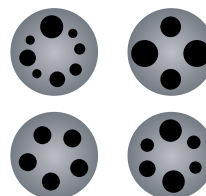
INSERT

Inserts for CALsys -1200L Autocal & CALsys 1200L model

Inserts for CALsys 1200L are made of metallic block 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

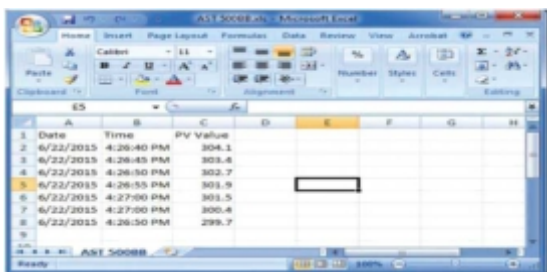
Inserts Model Description

Inserts	Description
Ci1	Multihole, 2 x 6.5 mm, 2x8.5 mm
Ci2	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.

ACCESSORIES

- Insert
- Reference Standard Thermocouple ('N' Type T/C) (Optional)
- Calsoft Software
- Operational Manual
- Carry Case
- NABL accredited calibration certificate (Optional)

