

High Temperature Dry Block Furnace

500°C to 1500°C

Wide Temperature Range

Autocal 1500L & CALsys 1500L offer a wide temperature range from 500 °C to 1500 °C

Simple to use

The Autocal 1500L & CALsys 1500L block is ideal for Industrial/ Laboratory field use. It is simple enough to testing and calibration uses.

Accuracy and performance

The Autocal 1500L & CALsys 1500L is an easy to use that also provides excellent calibration accuracy with stability $\pm 1.0^{\circ}\text{C}$ at 1500°C.

Computer Interface

The communication port (USB) enables communication with selected Autocal 1500L & CALsys 1500L calibrator.

CALsys 1500L Autocal 1500L

Highly accurate temperature Calibrator



CALsys -1500L



CALsys -1500L Autocal

Autocal 1500L & CALsys 1500L offers easy to use temperature calibrator with wide temperature range from 500 to 1500°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 finds its 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 200mm long. The temperature of the calibrator is set and controlled by a self tuned PID controller with automatic super fine adjustment.

The Autocal 1500L is an automatic temperature calibration system for the Thermocouple and RTDs. 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 RTDs. 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.

SPECIFICATIONS

Autocal 1500L & CALsys 1500L

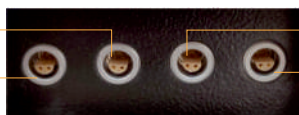
Temperature range	500 °C to 1500 °C
Stability	±0.4°C at 500°C
	±0.6°C at 1000°C
	±1°C at 1500°C
Uniformity	±0.6°C at 500°C
	±0.8°C at 1000°C
	±1.2°C at 1500°C
Controlling sensors	R type duplex
Stabilization time	15 to 20 mins
Immersion depth	140 mm
Insert dimensions	37 mm
Method of Control	Self tuned PID controller
Heating time	2 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 or 110 VAC 50/60 Hz 3.0 KW
Computer interface	LAN/USB
Calibration	Accredited calibration certificate provided (Optional)
Environmental operating conditions	0 °C to 40 °C
Input (Autocal 1500L)	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 1500L)	The calibrator will be provided with software for data recording (Manual Mode) and Excel generation in Auto Mode

SENSOR CONNECTION (Autocal 1500L)

The Calibration system provides calibration upto four channels i.e. one master and three test sensors.

Connection for First TEST Sensor

Connection for MASTER Sensor

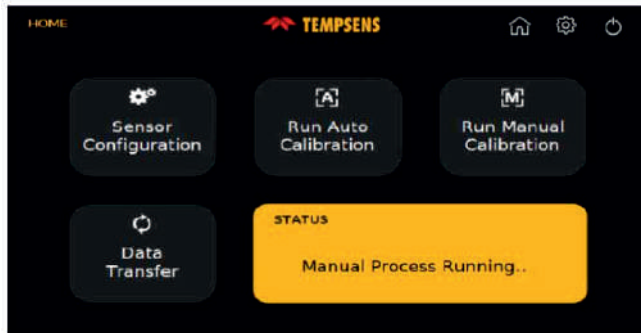


Connection for Second TEST Sensor

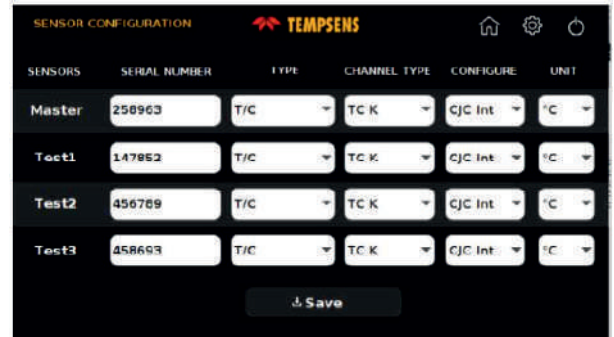
Connection for Third TEST Sensor

USER INTERFACE (Autocal 1500L)

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.

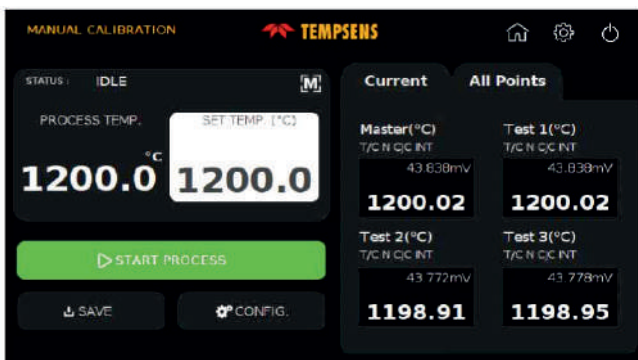


Sensor Configuration: In this screen user select the sensors Thermocouple (J, K, B, N, R, S, T type) / RTD (PT 100, PT 1000, PT50 etc.) for calibration with their serial number and temperature unit (C/F/K).

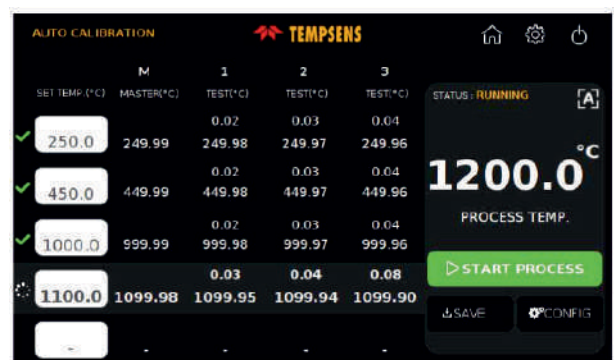


Autocal 1500L have two operating modes i.e. Manual and Auto mode

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



ACCESSORIES

- **Inserts for Autocal 1500L & CALsys 1500L model**

Inserts for CALsys 1500L are made of special material have multiholes of 2x6.5mm and 2x8.5mm. All specifications on hole size based on outer diameter of the sensor under test.

*We also offer customized hole size based on Customer requirements

- **Reference Standard Thermocouple**

(PT-RH-RH/PT R Type T/C)..... Part No. TTCR - 300 (Optional)

- **Calsoft Software**

- **Operational Manual**

- **NABL accredited calibration certificate (Optional)**

