

Liquid Calibration Bath

-35°C to 200°C

Wide Temperature Range

CALsys -35/200 & Autocal -35/200 offer a wide temperature range from -35 °C to 200 °C

Large immersion depth

CALsys -35/200 & Autocal -35/200 is ideal for Industrial I Laboratory field use. It has large immersion depth of 150mm with 105x105 sq. mm access opening and wide operating range.

CFC free refrigrents

CALsys -35/200 & Autocal -35/200 extremely highly accurate liquid stirrer bath free from CFC refrigerants.

Accuracy and performance

CALsys -35/200 & Autocal -35/200 is an easily portable unit that also provides excellent calibration accuracy with stability ± 0.04 °C at 200°C.

Computer Interface

The communication port (RS-232/USB) enables communication with selected CALsys -35/200 & Autocal -35/200 calibrator.

CALsys -35/200 Autocal -35/200

Calibration bath







Autocal -35/200

CALsys -35/200

CALsys -35/200 & Autocal -35/200 offers easy to use liquid temperature calibrator with wide temperature range from -35 °C to 200°C. It is a highly stable standard bath for calibrating thermocouples/RTD. It provide superior thermal environment for probe immersion as no air gap exists between the probe and the medium, thermal coupling is therefore much better and the stirring results in even heat distribution throughout the medium. Methanol is used for temperature below 0 °C, water from 0°C to 80 °C and silicon oil up to 200°C. The liquid is heated or cooled to the desired temperature.

The volume is approx 6 Ltr and access opening is 105X105 sq. mm with 150mm depth. The temperature of the calibrator is set and controlled by a self tuned PID controller with automatic super fine adjustment.

The Autocal -35/200 is an automatic temperature calibration system for the Thermocouple and RTD. 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 excel sheet of actual calibrated values for the inputs.

SPECIFICATIONS

Autocal -35/200 & CALsys -35/200

Software (Autocal -35/200)	The calibrator will be provided with software Excel generation in Auto Mode
Input (Autocal -35/200)	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
Environmental operating conditions	0°C to 30°C
Calibration	Accredited calibration certificate provided (Optional)
Computer interface	RS - 232 / USB / LAN
Power Requirements	230 VAC or 110 VAC 50/60 Hz 2 kW
Weight	65 kg
Size (H x W x D)	705(H) x 410 (W) x 605 (D) mm
Display	LCD,°C or F user-selectable
Resolution	0.1°C
Cooling time	60 Min (Room Temperature to -35°C)
Method of Control	Self tuned PID controller
Access opening	105x105 sq.mm
Immersion depth	150mm
Volume	Approx 6 Ltr.
	±0.07°C at 200°C
Stability Uniformity	±0.05°C at 0°C
	±0.03°C at -35°C
	±0.04°C at 200°C
	±0.03°C at 0°C
	±0.01°C at -35°C
Temperature range	-35°C to 200 °C

SENSOR CONNECTION (Autocal -35/200)

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



USER INTERFACE (Autocal -35/200)

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).



Autocal -35/200 have two operating modes i.e. Manual and Auto mode

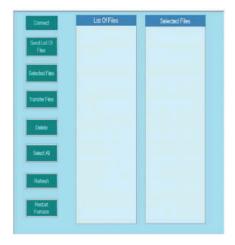
Manual Mode: In this screen user set the temp. Point for calibration and on clicking start process button the process of calibration starts



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 -35/200 & CALsys -35/200 model

Inserts for Autocal -35/200 & CALsys -35/200 is about 105X105 mm access opening with 150 mm intertion depth and have multiholes of 2x6.5 mm and 2x8.5 mm. All Specifications based on outer diameter of the sensor under test.

*We also offer customized hole size based on Customer requirements.

- Reference Standard RTD Part no. TPRT-A-300.
- Calsoft Software
- Operational Manual
- NABL accredited calibration certificate (Optional)





Mob.: +91-9251433157

Email: CALsys@tempsens.com, info@tempsens.com