

Dry Block Calibrators

Wide Temperature Range

Calsys -15/110 offer a wide temperature range from -15 °C to 110 °C

Lightweight, portable

The Calsys -15/110 block is ideal for Industrial/ Laboratory field use. It only weights about 12 kg, and it is small enough to carry around

Speed

The Calsys -15/110 extremely quick to reach various temperatures, i.e. it Heats down to -15 °C in 25 minutes and heats up room temp to +110 °C in 10 minutes. This saves time and increases productivity

Accuracy and performance

The Calsys -15/110 is an easily portable unit that also provides excellent calibration accuracy with stability ± 0.07 °C at 110°C.

Accredited calibration

Each Calsys -15/110 is delivered with an accredited calibration certificate.

Computer Interface

The communication port(USB) enables communication with selected Calsys -15/110 Temperature calibrator for automation calibration and documentation thus it made documentation easy.

Calsys -15/110 Autocal -15/110

Portable, Lightweight, highly accurate low temperature Calibrator for Industrial/ Laboratory field use



CALSYS -15/110



Autocal -15/110

Calsys -15/110 offers easy to use portable low temperature calibrator with temperature range from -15 to 110°C. It is a highly stable standard furnace for calibrating RTD. This calibrator can be used on site for high temperature calibration and also find application in aerospace, oil gas petrochemical, pharmaceutical industry, electric power, automotive and material process industry. The comparison volume is a metallic block of special material, which has a diameter of 24mm and 120mm long. Low temperature dry block furnace based on thermoelectric cooling circuitry. This model provides special design isothermal enclosure which can calibrate sensor against the calibrator. Temperature of the calibrator is set and controlled by a self tuned PID controller with automatic super fine adjustment. Our newly designed Calsys -15/110 model offers better esthetic design and performance wise upgraded to next level. The Autocal -15/110 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.

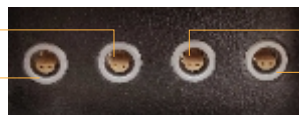
SPECIFICATIONS

Autocal -15/110 & CALsys -15/110

Temperature range at 25°C	-15 °C to 110 °C
Stability	±0.03°C at -15°C
	±0.05°C at 0°C
	±0.07°C at 110°C
Radial uniformity	±0.05°C at -15°C
	±0.07°C at 0°C
	±0.09°C at 110°C
Hysteresis	0.02 °C
Immersion depth	120 mm
Insert OD dimensions	24 mm
Method of Control	Self tuned PID controller
Heating time	10 Min
Cooling time	25 Min (110 °C to -15°C)
Resolution	0.1 °C
Display	LCD, °C or °F user-selectable
Size (H x W x D)	425(H) x 230(W) x 305(D) mm
Weight	12Kg
Power requirements	230 VAC, 500 W(50 Hz)
Computer interface	USB
Calibration	Accredited calibration certificate provided (Optional)
Environmental operating conditions	5 °C to 25 °C, 0 % to 90 % RH (non-condensing)
Specifications valid in environmental conditions	5°C ... 25°C
Input (Autocal -15/110)	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 -15/110)	The calibrator will be provided with software for data recording (Manual Mode) and Excel generation in Auto Mode
Data logging (Autocal -15/110)	Data logging facility with logged data export to computer through LAN port (optional USB)

SENSOR CONNECTION (Autocal -15/110)

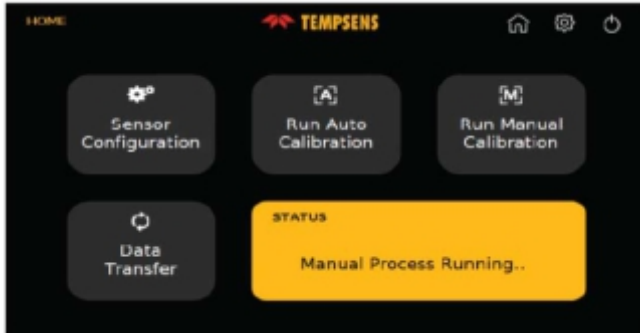
Connection for First TEST Sensor
Connection for MASTER Sensor



Connection for Second TEST Sensor
Connection for Third TEST Sensor

USER INTERFACE (Autocal -15/110)

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.

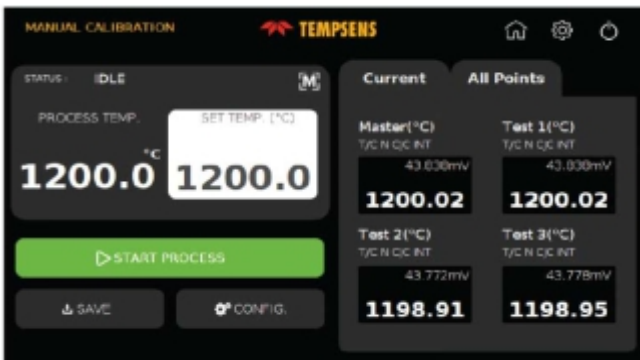


Sensor Configuration: In this screen user select the sensors Thermocouple (J, K, B, N, R, S, T type) / RTD(PT 100, PT 1000, PT50 etc.) for calibration with their serial number and temperature unit (C/F/K).

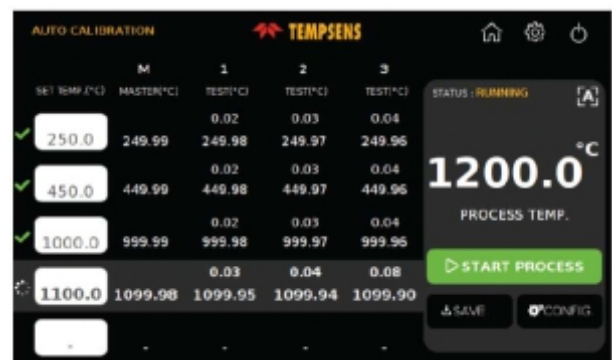


Autocal -15/110 have two operating modes i.e. Manual and Auto mode

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)

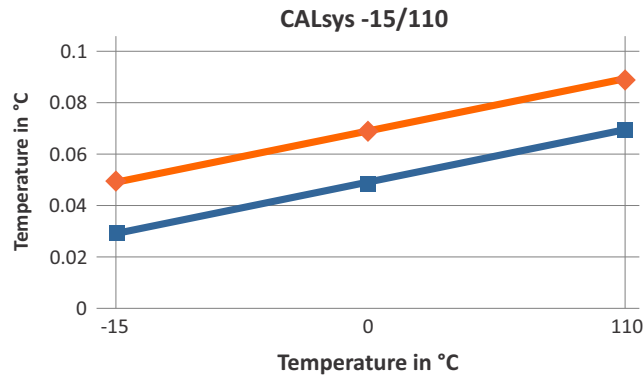
- Tempsens can offer customized data saving option both for manual and Automode.
- After completion manual / Automode automatic calibration report can be generated at PC side based on predefined format.

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



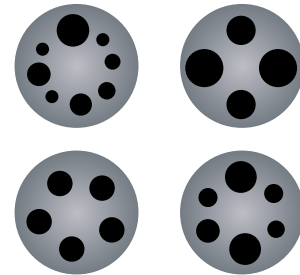
INSERT

Inserts for Calsys -15/110 models

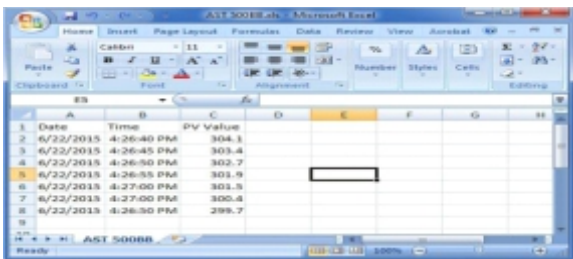
Inserts for Calsys -15/110 are made of aluminum. All specifications on hole size based on outer diameter of the sensor under test. We also offer customized hole size based on Customer requirements.

Inserts Model Description

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



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 RTD
- Calsoft Software
- Operational Manual
- Carry Case
- NABL accredited calibration certificate (Optional)

