TEMPSENS

High Temperature Dry Block Calibrator

-High Accuracy

-High Temperature

-Highly Stable Temperature Calibrator for Industrial Field Uses

www.tempsens.com

High Temperature Dry Block Furnace

Wide Temperature Range

CALsys 1200L Autocal & 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 ±0.35°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) enables communication with selected 1200L Autocal & CALsys 1200L calibrators for automation calibration and documentation thus it made documentation easy.

TEMPSENS

Calsys 1200L
Calsys 1200L Autocal

Highly accurate temperature Calibrator for Industrial / Laboratory field use

CALSYS -1200L | **CALsys -1200L Autocal**

CALsys 1200L Autocal & 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 ofTemperature 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.

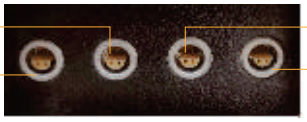
SPECIFICATIONS

CALsys 1200L Autocal & 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 tunned 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
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 (CALsys 1200L 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 1200L Autocal)	**The calibrator will be provided with software for data recording (Manual Mode) and Test Certificate genration in Auto Mode**
Data logging (CALsys 1200L Autocal)	**Data logging facility with logged data export to computer through LAN port (optional USB)**

SENSOR CONNECTION (CALsys 1200L Autocal)

Connection for First TEST Sensor
Connection for MASTER Sensor

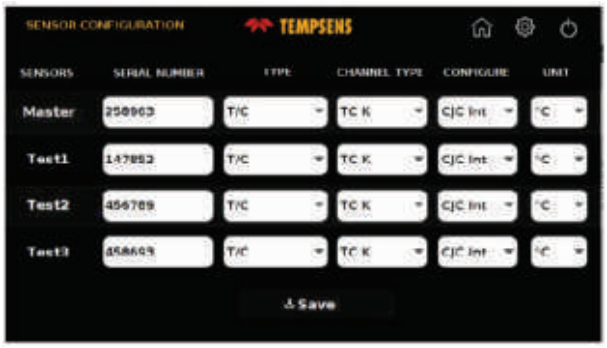


Connection for Second TEST Sensor
Connection for Third TEST Sensor

USER INTERFACE (CALsys 1200L Autocal)

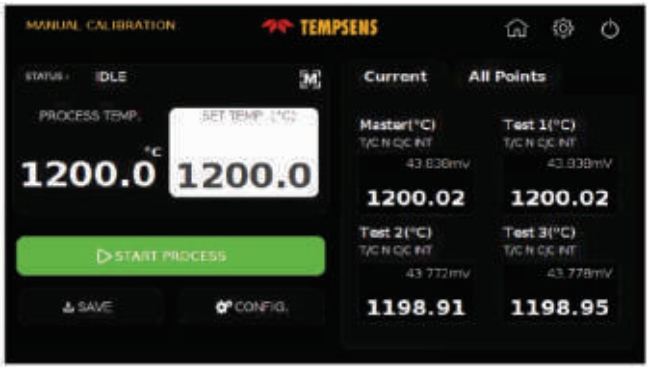
Home Screen: In this screen user can select sensor configuration (for selection of type of sensors), mode of operation (auto / manual) and data transfer (file transfer). This window also shows the ongoing process.

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

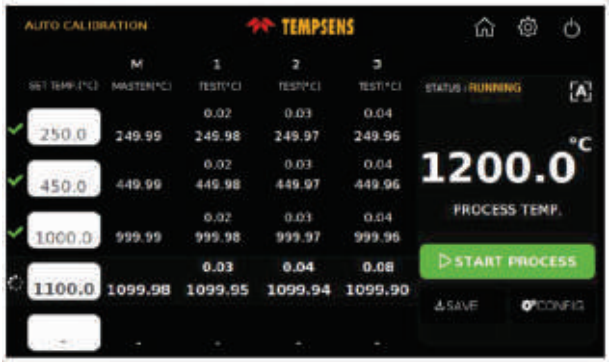


CALSYS 1200L Autocal have two operating modes i.e. Manual and Auto mode

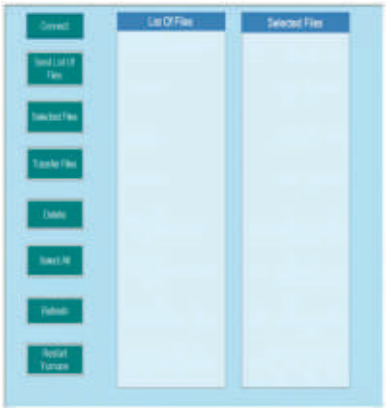
Manual Mode: Inthis screen user set the temp. Point for calibration and on clicking start process button the process of calibration starts



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

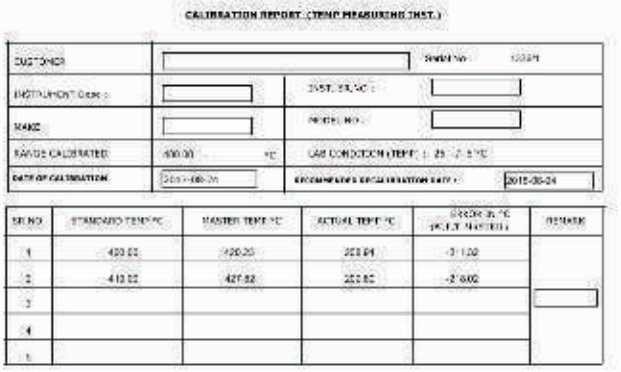


SOFTWARE : Tempsens make Easy to use Customized software enables end user to access temperature data bothfor Manual mode and Automode

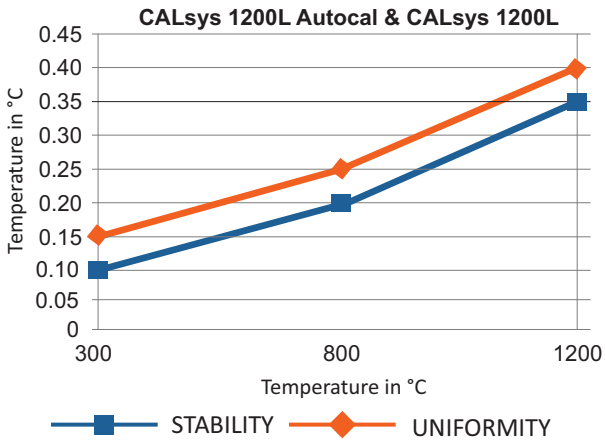


AUTOMATIC CALIBRATION REPORT GENERATION (Optional)

- 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.



STABILITY / UNIFORMITY



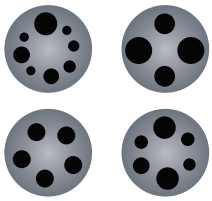
Insert construction

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

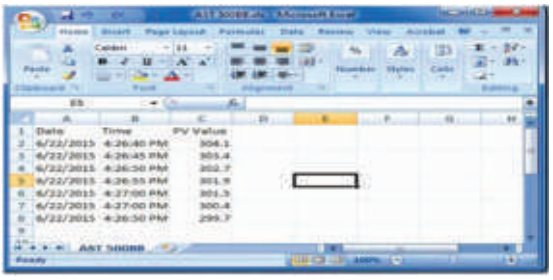
Inserts Model Description

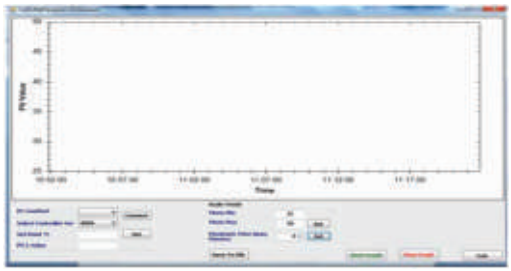
Inserts	Description
Ci1	Multihole, 2 x 6.5 mm, 2x8.5 mm
Ci2	Special (Customized)



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.

MASTER SENSOR

- Reference Standard Thermocouple ('N' Type T/C)
- Part no. TTCN- 300.

- NABL accredited calibration certificate - 3 points (Optional)
- Operational Manual

TEMPSENS

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

High Temperature Dry Block Furnace

Wide Temperature Range

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

Simple to use

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

Accuracy and performance

The CALsys 1500L Autocal & CALsys 1500L is an easy to use that also provides excellent calibration accuracy with stability ±1.0°C at 1500°C.

Accredited calibration

Each CALsys 1500L Autocal & CALsys 1500L is delivered with an accredited calibration certificate.

Computer Interface

The communication port (RS-232) enables communication with selected CALsys 1500L Autocal & CALsys 1500L calibrators for automation calibration and documentation thus it made documentation easy.

TEMPSENS

Calsys 1500L
Calsys 1500L Autocal

Highly accurate temperature Calibrator for Industrial / Laboratory field use

CALSYS -1500L **CALsys -1500L Autocal**

CALsys 1500L Autocal & CALsys 1500L offers easy to use temperature calibrator with high 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 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 245mm 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 1500L Autocal & CALsys 1500L model offers better esthetic design and performance wise upgraded to next level. The CALsys 1500L Autocal is an automatic temperature calibration system for the Thermocouple and RTD's. The system consists ofTemperature 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.

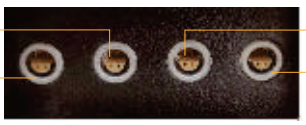
SPECIFICATIONS

CALsys 1500L Autocal & 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 tunned 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, 3.0 KW(50 Hz)
Computer interface	RS - 232
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 (CALsys 1500L 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 1500L Autocal)	**The calibrator will be provided with software for data recording (Manual Mode) and Test Certificate genration in Auto Mode**
Data logging (CALsys 1500L Autocal)	**Data logging facility with logged data export to computer through LAN port (optional USB)**

SENSOR CONNECTION (CALsys 1500L Autocal)

Connection for First TEST Sensor
Connection for MASTER Sensor

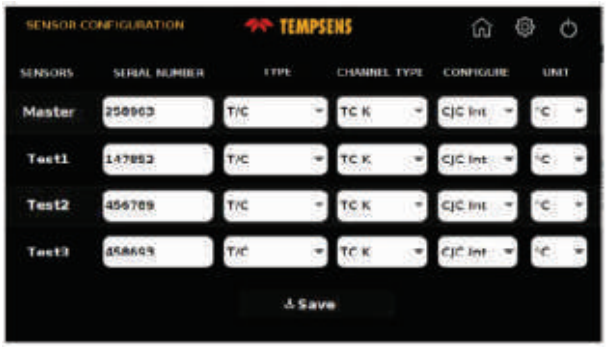


Connection for Second TEST Sensor
Connection for Third TEST Sensor

USER INTERFACE (CALsys 1500L Autocal)

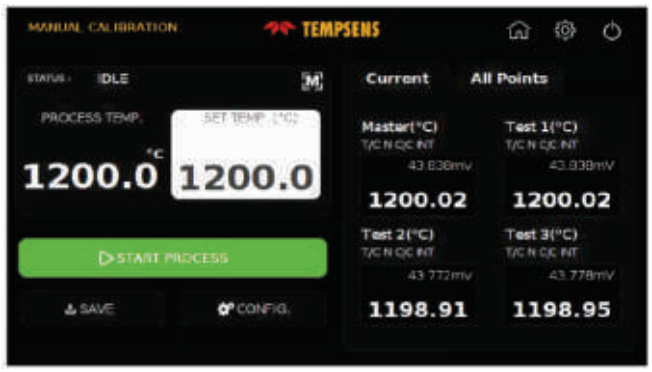
Home Screen: In this screen user can select sensor configuration (for selection of type of sensors), mode of operation (auto / manual) and data transfer (file transfer). This window also shows the ongoing process.

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

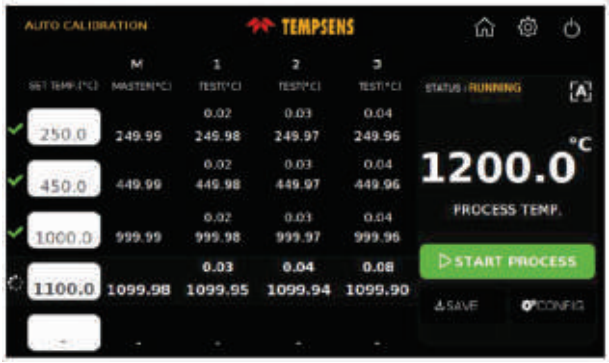


CALSYS 1500L Autocal have two operating modes i.e. Manual and Auto mode

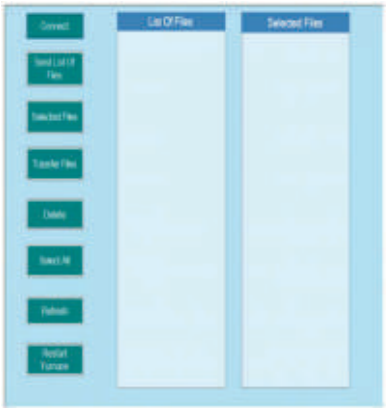
Manual Mode: Inthis screen user set the temp. Point for calibration and on clicking start process button the process of calibration starts



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

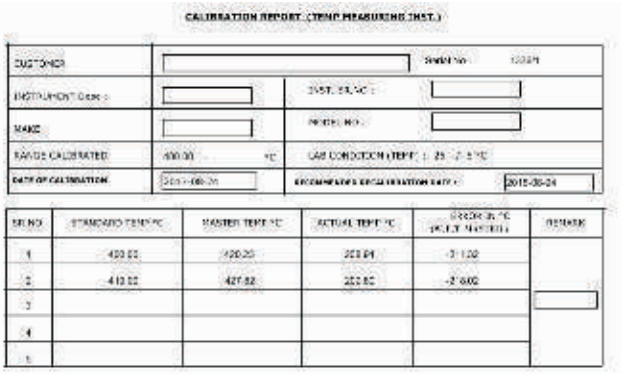


SOFTWARE : Tempsens make Easy to use Customized software enables end user to access temperature data bothfor Manual mode and Automode

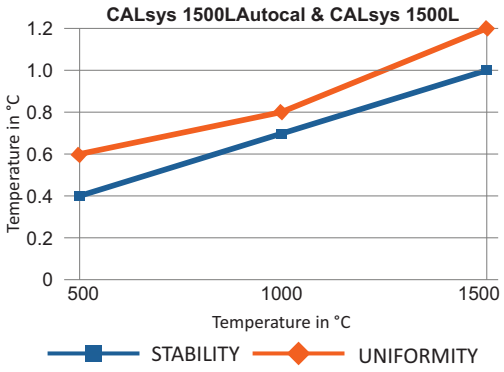


AUTOMATIC CALIBRATION REPORT GENERATION (Optional)

- 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.



STABILITY & UNIFORMITY



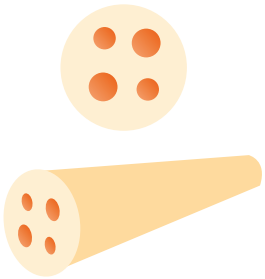
ACCESSORIES

Inserts for CALsys 1500L Autocal & CALsys 1500L model

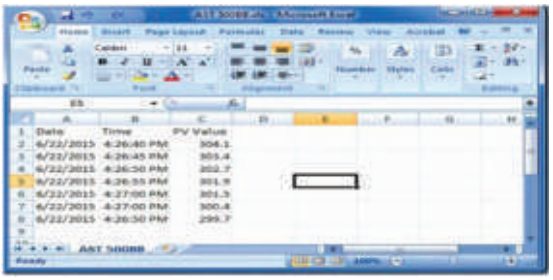
Inserts for CALsys 1500L are made of ceramic block. All specifications on hole size based on outer diameter of the sensor under test. We also offer customized hole size based on Customer requirements

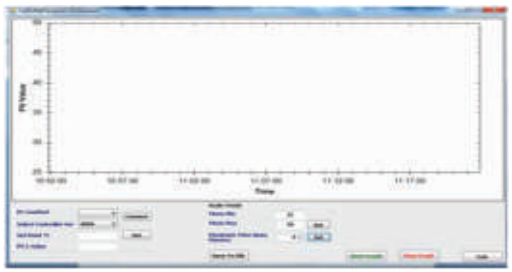
Inserts Model Description

Inserts	Description
Ci1	Multihole, 2 x 6.5 mm, 2x8.5 mm
Ci2	Special (Customized)



SOFTWARE

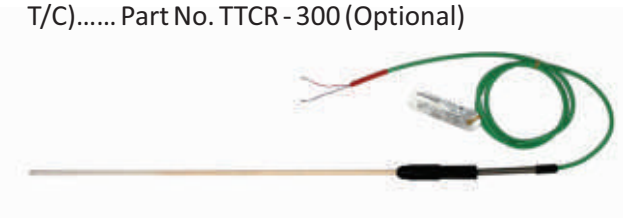




- CalSoft including for setting bath temperature and monitoring the PV. Graphical representations of PV/TIME with 2 hours data logging.

MASTER SENSOR

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



- NABL accredited calibration certificate - 3 points (Optional)
- Operational Manual

TEMPSENS

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

High Temperature Dry Block Furnace

Wide Temperature Range

CALsys 1700L Autocal & CALsys 1700L offer a wide temperature range from 500 °C to 1700 °C

Simple to use

The CALsys 1700L Autocal & CALsys 1700L block is ideal for Industrial/ Laboratory field use and it is simple enough to testing and calibration uses.

Accuracy and performance

The CALsys 1700L Autocal & CALsys 1700L is an easy to use that also provides excellent calibration accuracy with stability ±1.5°C at 1700°C.

Accredited calibration

Each CALsys 1700L Autocal & CALsys 1700L is delivered with an accredited calibration certificate.

Computer Interface

The communication port (RS-232) enables communication with selected CALsys 1700L Autocal & CALsys 1700L calibrators for automation calibration and documentation thus it made documentation easy.

TEMPSENS

Calsys 1700L
Calsys 1700L Autocal

Highly accurate temperature Calibrator for Industrial / Laboratory field use

CALSYS -1700L

CALsys -1700L Autocal

CALsys 1700L Autocal & CALsys 1700L offers easy to use temperature calibrator with high temperature range from 500 to 1700°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 240mm 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 1700L model offers better esthetic design and performance wise upgraded to next level. The CALsys 1700L Autocal is an automatic temperature calibration system for the Thermocouple and RTD's. The system consists ofTemperature 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.

Tempsens make Temperature Calibrator is 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

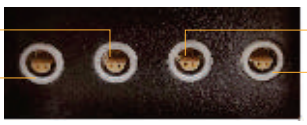
CALsys 1700L Autocal & CALsys 1700L

Temperature range	500 °C to 1700 °C
Stability	±0.5°C at 500°C
	±1.0°C at 1000°C
	±1.5°C at 1700°C
Radial uniformity	±0.6°C at 500°C
	±1.4°C at 1000°C
	±1.9°C at 1700°C
Stabilization time	15 to 20mins
Controlling sensor	B type duplex
Method of Control	Self tunned PID controller
Immersion depth	225mm
Insert OD dimensions	37 mm
Heating time	3 Hrs
Resolution	1 °C
Display	LCD, °C or °F user-selectable
Size (H x W x D)	700(H) x 500(W) x 550(D) mm
Weight	130Kg
Power requirements	230 VAC 50/60Hz
Computer interface	RS - 232
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 (CALsys 1700L 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 1700L Autocal)	**The calibrator will be provided with software for data recording (Manual Mode) and Test Certificate genration in Auto Mode**
Data logging (CALsys 1700L Autocal)	**Data logging facility with logged data export to computer through LAN port (optional USB)**

SENSOR CONNECTION (CALsys 1700L Autocal)

Connection for First TEST Sensor

Connection for MASTER Sensor



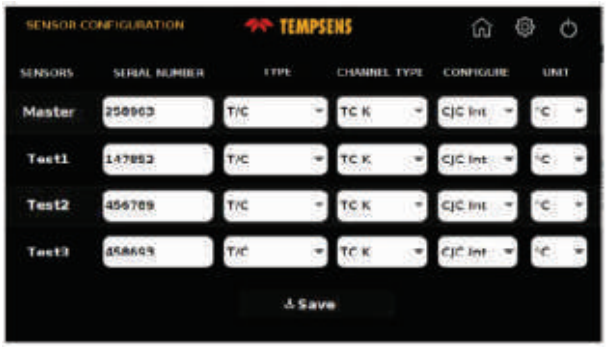
Connection for Second TEST Sensor

Connection for Third TEST Sensor

USER INTERFACE (CALsys 1700L Autocal)

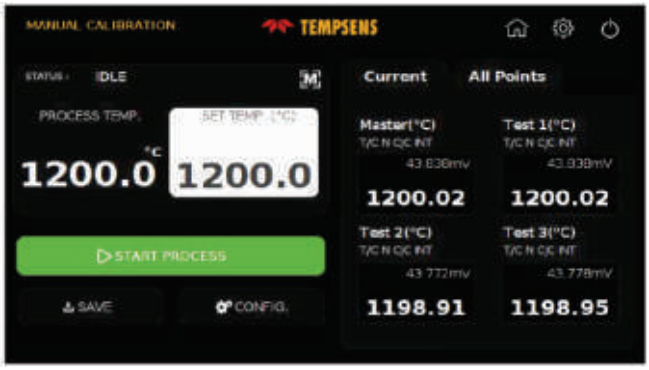
Home Screen: In this screen user can select sensor configuration (for selection of type of sensors), mode of operation (auto / manual) and data transfer (file transfer). This window also shows the ongoing process.

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

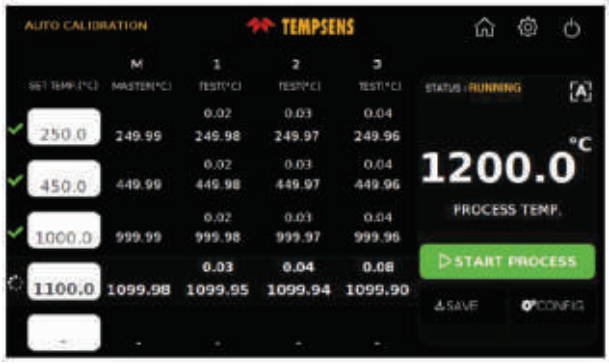


CALSYS 1700L Autocal have two operating modes i.e. Manual and Auto mode

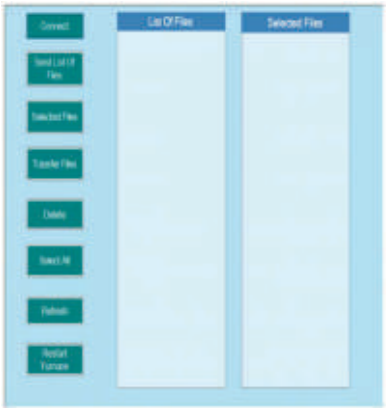
Manual Mode: Inthis screen user set the temp. Point for calibration and on clicking start process button the process of calibration starts



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

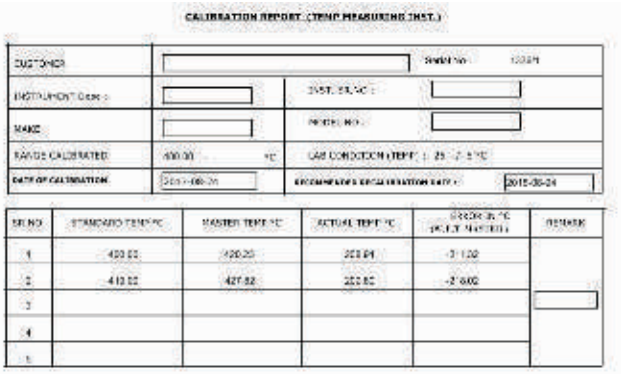


SOFTWARE : Tempsens make Easy to use Customized software enables end user to access temperature data bothfor Manual mode and Automode

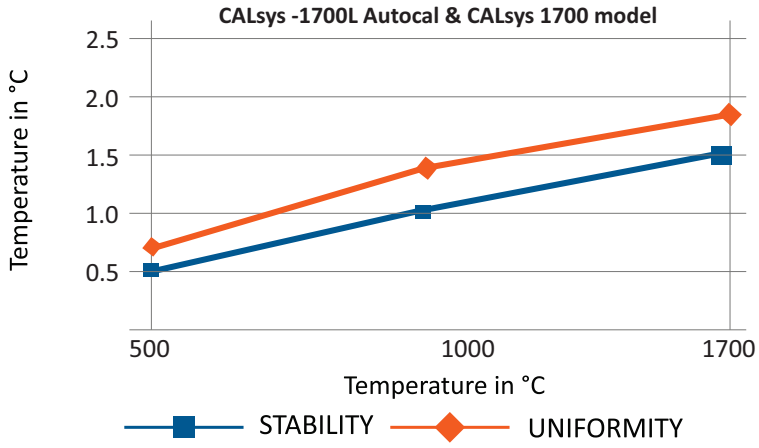


AUTOMATIC CALIBRATION REPORT GENERATION (Optional)

- 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.



STABILITRY & UNIFORMITY



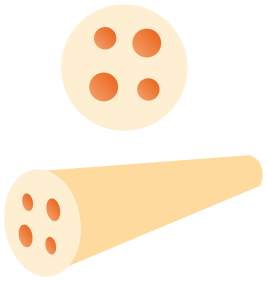
Insert construction

Inserts for CALsys -1700L Autocal & CALsys 1700L model

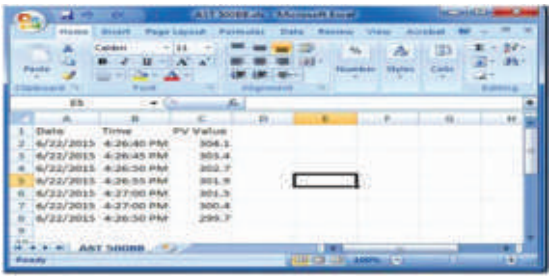
Inserts for CALsys 1700L are made of special material. All specifications on hole size based on outer diameter of the sensor under test. We also offer customized hole size based on Customer requirements

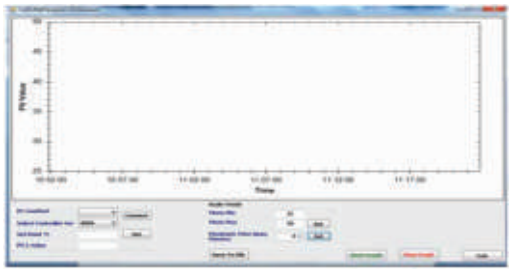
Inserts Model Description

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

MASTER SENSOR

- Reference Standard Thermocouple (PT-RT/PT "B type T/C")..... Part No. TTCB - 300 (Optional)

- NABL accredited calibration certificate - 3 points (Optional)
- Operational Manual

TEMPSENS

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