

Dry Block Calibrators

TE-350P/TE-650P/TE-1200P

up to 1200 °C

- 3 in 1
- Ready to use
- Best value for money

PRESYS



- Resolution of 0.01 °C.
- Stability of ± 0.05 °C for the TE-350P and TE-650P and ± 0.1 °C for the TE-1200P model.
- Internal regulated 24 Vdc power supply and mA input for 2-wire transmitters.
- Complete automatic calibration with or without the use of a computer (auto-cycling).
- Documenting capabilities: connection with computer and ISOPLAN® calibration software.

PRESYS®

The TE-350P/TE-650P and TE-1200P calibrators are the best value for money positive dry blocks on the market offering functionalities only found on high-end models of competitors.

With his embedded documenting controller/calibrator, the TE-dry block controls temperature over an insert in order to calibrate automatically and with programmed cycles, thermocouples, thermoresistances, thermostiches, etc.

3 in 1

It incorporates the function of a dry block, a standard thermometer and a calibrator for the measurement of signals generated by the thermocouples, thermoresistances and transmitters eliminating the need of a second calibrator and a computer to do your work.

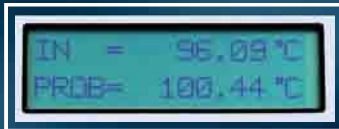


Presys High-Performance Controller / Calibrator

Internal Reference Probe

Set Point

Simultaneous Display of DUT Input and Temperature Reference Probe.



Selection of Various Display Options.

Runs Automatically the Calibration Cycle and Stores the Values.



Current Input

Thermocouple Input

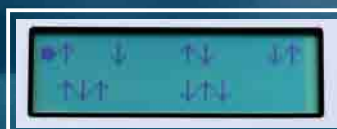
Transmitter Power Supply 24 Vdc

RTD Input
2, 3, 4 wires

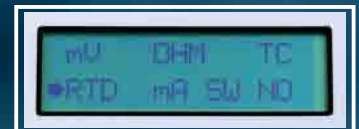
Embedded Complete Calibrator with Documented Capabilities



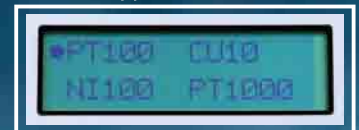
Define your Calibration Cycle and Parameters.



Choose your DUT Input.



Different Types of RTDs.



Selection of Thermocouples.



Common Features of our TE Economic Series

- ▶ Liquid Cristal Display - LCD.
- ▶ Electric Power Supply: 115 or 230 Vac, 50/60 Hz.
- ▶ Unit/Temperature Scales: °C, °F, IPTS-68 or ITS-90, user selectable.
- ▶ Serial Communication: Modbus® RTU Protocol (RS-232/RS-485).
- ▶ Input Thermocouple: J, K,T, N, L: $\pm 0.2\text{ }^{\circ}\text{C}$ @ 660 °C / E: $\pm 0.1\text{ }^{\circ}\text{C}$ @ 660 °C / R, S: $\pm 0.7\text{ }^{\circ}\text{C}$ @ 660 °C (only TE-1200P model).
- ▶ CJC Accuracy: $\pm 0.2\text{ }^{\circ}\text{C}$.
- ▶ Input RTD: 2, 3, 4 Wires / Pt-100, Pt-1000, Cu-10, Ni-100 / $\pm 0.1\text{ }^{\circ}\text{C}$.
- ▶ Input Current: -1 to 24.5 mA, $\pm 0.02\%$ FS.
- ▶ Transmitter Power Supply: 24 Vdc regulated.

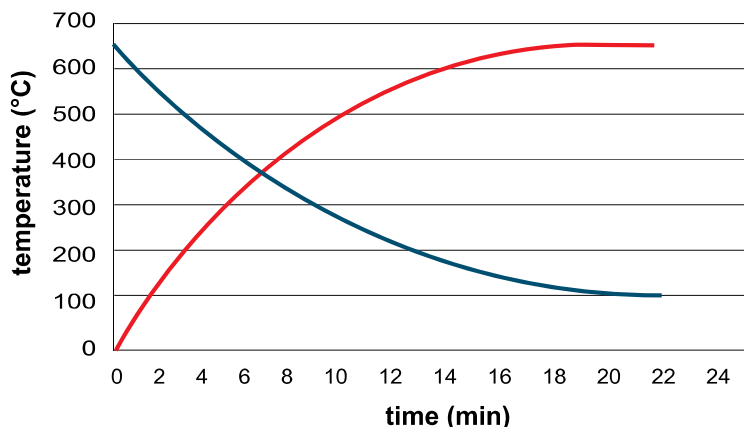
up to 1200 °C



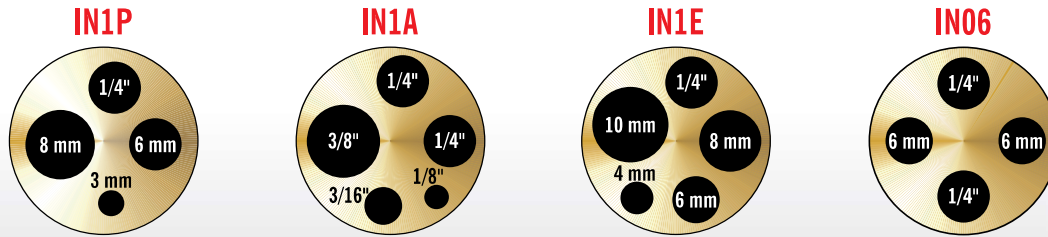
Models

	TE-350P	TE-650P	TE-1200P
Operating Range ambient temperature: 23 °C	from ambient temperature to 350 °C	from ambient temperature to 650 °C	50 °C to +1200 °C
Accuracy with internal Reference	$\pm(0.1\text{ }^{\circ}\text{C} + 0.1\%$ of reading)	$\pm(0.1\text{ }^{\circ}\text{C} + 0.1\%$ of reading)	$\pm 2.2\text{ }^{\circ}\text{C}$
Resolution:	0.01 °C	0.01 °C	0.1 °C
Stability:	$\pm 0.05\text{ }^{\circ}\text{C}$	$\pm 0.05\text{ }^{\circ}\text{C}$	$\pm 0.1\text{ }^{\circ}\text{C}$
Radial Uniformity (homogeneity):	$\pm 0.02\text{ }^{\circ}\text{C}$ @ 50 °C $\pm 0.03\text{ }^{\circ}\text{C}$ @ 150 °C $\pm 0.04\text{ }^{\circ}\text{C}$ @ 350 °C	$\pm 0.05\text{ }^{\circ}\text{C}$ @ 50 °C $\pm 0.10\text{ }^{\circ}\text{C}$ @ 300 °C $\pm 0.20\text{ }^{\circ}\text{C}$ @ 650 °C	$\pm 0.05\text{ }^{\circ}\text{C}$ @ 50 °C $\pm 0.15\text{ }^{\circ}\text{C}$ @ 650 °C $\pm 0.20\text{ }^{\circ}\text{C}$ @ 1100 °C
Axial Uniformity (homogeneity) (40 mm):	$\pm 0.02\text{ }^{\circ}\text{C}$ @ 50 °C $\pm 0.03\text{ }^{\circ}\text{C}$ @ 150 °C $\pm 0.04\text{ }^{\circ}\text{C}$ @ 350 °C	$\pm 0.05\text{ }^{\circ}\text{C}$ @ 50 °C $\pm 0.10\text{ }^{\circ}\text{C}$ @ 300 °C $\pm 0.20\text{ }^{\circ}\text{C}$ @ 650 °C	$\pm 0.05\text{ }^{\circ}\text{C}$ @ 50 °C $\pm 0.15\text{ }^{\circ}\text{C}$ @ 650 °C $\pm 0.20\text{ }^{\circ}\text{C}$ @ 1100 °C
Heating Time:	13 min (50 °C to 350 °C)	18 min (50 °C to 650 °C)	45 min (100 °C to 1200 °C)
Cooling Time:	12 min (350 °C to 100 °C)	22 min (650 °C to 100 °C)	5 h (1200 °C to 200 °C)
Electric Power:	500 W	1000 W	2300 W
Well Diameter x Depth:	$\varnothing 32\text{ mm} \times 124\text{ mm}$	$\varnothing 32\text{ mm} \times 124\text{ mm}$	$\varnothing 34\text{ mm} \times 130\text{ mm}$
Weight:	8.0 kg	10 kg	11 kg
Dimension (HxWxD):	260 x 180 x 270 mm	260 x 180 x 270 mm	315 x 180 x 270 mm

TE-650P Dry Block



Insert Models



- One standard insert included (default is IN1P).
- Consult our website or factory for all insert dimensions and types available.
- Presys can provide custom inserts with minimum 3mm separation between holes, consult Presys with your specific requirements.

Inserts

Models	Holes	Order Code		
		TE-350P	TE-650P	TE-1200P
IN01	1x 3/4"	06.04.0101-00	06.04.0111-00	06.04.0031-00
IN02	1x 1/2"	06.04.0102-00	06.04.0112-00	06.04.0032-00
IN03	1x 6.0 mm and 3x 1/4"	06.04.0103-00	06.04.0113-00	06.04.0033-00
IN04	3x 6.0 mm and 1x 1/4"	06.04.0104-00	06.04.0114-00	06.04.0034-00
IN05	4x 6.0 mm	06.04.0105-00	06.04.0115-00	06.04.0035-00
IN06	2x 6.0 mm and 2x 1/4"	06.04.0106-00	06.04.0116-00	06.04.0036-00
IN07	1x 6.0 mm 1x 8.0 mm and 1x 3/8"	06.04.0107-00	06.04.0117-00	06.04.0037-00
IN08	1x 6.0 mm 1x 3.0 mm and 2x 1/4"	06.04.0108-00	06.04.0118-00	06.04.0038-00
IN09	Without hole, to be drilled by the client	06.04.0109-00	06.04.0119-00	06.04.0039-00
IN10	Others, under ordering	06.04.0110-00	06.04.0120-00	06.04.0040-00
INCL	Cup-like insert (for use with tiny steel balls)	06.04.0099-00	06.04.0100-00	_____
IN1P	1 x 3mm, 1 x 6mm, 1 x 8mm, 1 x 1/4"	06.04.0128-00	06.04.0131-00	_____
IN1A	1 x 1/8", 1 x 3/16", 2 x 1/4", 1 x 3/8"	06.04.0129-00	06.04.0132-00	_____
IN1E	1 x 4mm, 1 x 8mm, 1 x 10mm, 1 x 1/4"	06.04.0130-00	06.04.0133-00	_____

Order Code

Power Supply TE-350P / TE-650P / TE-1200P - - IN -

1 - 115 Vac 2 - 230 Vac

Included Insert _____

Choose from those listed above.

Optional: BB - Black Body Insert (only for TE-1200P) _____

Included Items

Strap, Insert (selectable), insert Extractor tool, test leads, insulation (only for TE-1200P), power cord, manual and calibration certificate.

Optional Accessories

- Soft Carrying Case.
- Communication Interface - Order Code: 06.02.0002-00.
- Cup-like insert and tiny steel balls.



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