

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.
- Remote Control via Bluetooth and Android application.



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, thermoswitches, 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

Current Input

Thermocouple Input

Transmitter Power Supply 24 Vdc

RTD Input 2, 3, 4 wires

Simultaneous Display of DUT Input and Temperature Reference Probe.

IN = 100.21°C
PRB1 = 100.00°C

99.93^{RTD} °C

100.00^{PR1} °C

Selection of Various Display Options.

Runs Automatically the Calibration Cycle and Stores the Values.

Embedded Complete Calibrator with Documented Capabilities

→TAG EXEC VERIF
ADDRESS TAGMAN

→TAG TOL STR SP
STB RP RGO RGI

Define your Calibration Cycle and Parameters.

↕ ↕ ↕ ↕
↕ ↕ ↕ ↕

Choose your DUT Input.

mV OHM TC
→RTD mA SW NO

Different Types of RTDs.

→PT100 CU10
NI100 PT1000

Selection of Thermocouples.

→J K T E N L

Common Features of our TE Economic Series

- ▶ OLED Display.
- ▶ 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 $^{\circ}\text{C}$ / E: $\pm 0.1\text{ }^{\circ}\text{C}$ @ 660 $^{\circ}\text{C}$ / R, S: $\pm 0.7\text{ }^{\circ}\text{C}$ @ 660 $^{\circ}\text{C}$ (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.

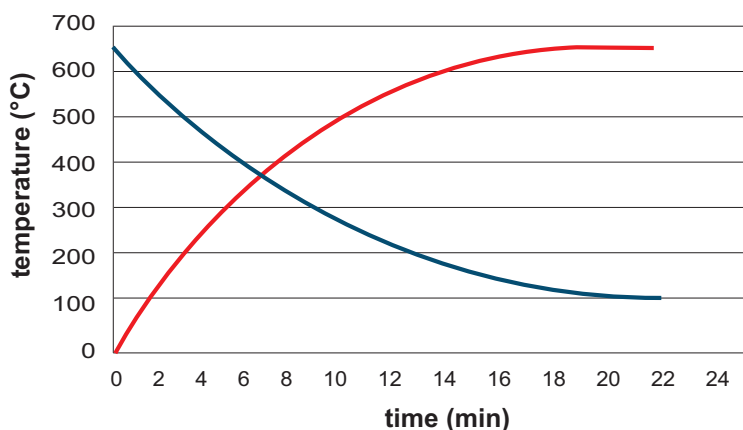
up to 1200 °C



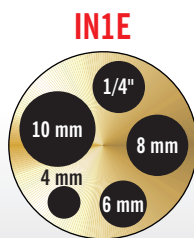
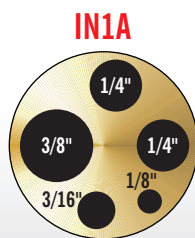
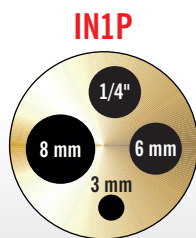
Models

	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:	$\pm (0.1\text{ }^{\circ}\text{C} + 0.1\% \text{ of reading})$	$\pm (0.1\text{ }^{\circ}\text{C} + 0.1\% \text{ of reading})$	$\pm 2.2\text{ }^{\circ}\text{C}$
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 with insert IN1C
Axial Uniformity (homogeneity):	$\pm 0.05\text{ }^{\circ}\text{C}$ @ 50 °C $\pm 0.10\text{ }^{\circ}\text{C}$ @ 150 °C $\pm 0.15\text{ }^{\circ}\text{C}$ @ 350 °C	$\pm 0.10\text{ }^{\circ}\text{C}$ @ 50 °C $\pm 0.20\text{ }^{\circ}\text{C}$ @ 300 °C $\pm 0.40\text{ }^{\circ}\text{C}$ @ 650 °C	$\pm 0.15\text{ }^{\circ}\text{C}$ @ 50 °C $\pm 0.25\text{ }^{\circ}\text{C}$ @ 650 °C $\pm 0.25\text{ }^{\circ}\text{C}$ @ 1100 °C with insert IN1C
Heating Time:	13 min (50 °C to 350 °C)	18 min (50 °C to 650 °C)	100 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	800 W
Well Diameter x Depth:	Ø 32 mm x 124 mm	Ø 32 mm x 124 mm	Ø 34 mm x 130 mm
Weight:	5.0 kg	7.0 kg	12 kg
Dimensions (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	_____
IN1C	2x 3.5mm, 2x 4.0mm, 2x 6.0mm and 2x 1/4" - Alumina	_____	_____	06.04.0177-00

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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