



Dry Block Calibrator

TE-25N/TE-35N/TE-50N

-25 °C to 155 °C

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

PRESYS



- Resolution of 0.01 °C.
- Stability of ± 0.02 °C for all the temperature range.
- Input for RTD, thermocouples and thermoswitches.
- 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-25N / TE-35N and TE-50N calibrators are one of the fastest and best value for money negative/positive dry block on the market offering functionalities only found on high-end models of competitors.

With his embedded documenting controller/calibrator, the TE-25N / TE-35N and TE-50N 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 daily calibration 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.

Embedded Complete Calibrator with Documented Capabilities

Choose your DUT Input.

Different Types of RTDs.

Selection of Thermocouples.

Selection of Various Display Options.

Define your Calibration Cycle and Parameters.

Runs Automatically the Calibration Cycle and Stores the Values.

IN = -10.00°C
PRB1 = -10.00°C

-10.00^{RTD} °C

-10.00^{PR1} °C

→TAG EXEC VERIF
ADDRESS TAGMAN

→TAG TOL STR SP
STB RP RGO RGI

μV OHM TC
→RTD mA SW NO

→PT100 CU10
NI100 PT1000

→J K T E N L

↑↑ ↓ ↓↑ ↓↓
↑↑↑ ↓↑↓

Common Features of our TE Economic Series

► Display - OLED.

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) and Bluetooth.

► Input Thermocouple: J, K, T, N, L: $\pm 0.2\text{ }^{\circ}\text{C}$ @ $660\text{ }^{\circ}\text{C}$ / E: $\pm 0.1\text{ }^{\circ}\text{C}$ @ $660\text{ }^{\circ}\text{C}$.

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.



Model

TE-25N

TE-35N

TE-50N

Operating Range

ambient temperature: $23\text{ }^{\circ}\text{C}$

$-25\text{ }^{\circ}\text{C}$ to $+155\text{ }^{\circ}\text{C}$

$-35\text{ }^{\circ}\text{C}$ to $+155\text{ }^{\circ}\text{C}$

$-50\text{ }^{\circ}\text{C}$ to $+155\text{ }^{\circ}\text{C}$

Accuracy with internal Reference:

$\pm 0.1\text{ }^{\circ}\text{C}$

$\pm 0.1\text{ }^{\circ}\text{C}$

$\pm 0.1\text{ }^{\circ}\text{C}$

Resolution:

$0.01\text{ }^{\circ}\text{C}$

$0.01\text{ }^{\circ}\text{C}$

$0.01\text{ }^{\circ}\text{C}$

Stability:

$\pm 0.02\text{ }^{\circ}\text{C}$

$\pm 0.02\text{ }^{\circ}\text{C}$

$\pm 0.02\text{ }^{\circ}\text{C}$

Axial Uniformity (40 mm) Dry Block:

$\pm 0.05\text{ }^{\circ}\text{C}$ Full range

$\pm 0.06\text{ }^{\circ}\text{C}$ Full range

$\pm 0.07\text{ }^{\circ}\text{C}$ Full range

Radial Uniformity Dry Block:

$\pm 0.01\text{ }^{\circ}\text{C}$ Full range

$\pm 0.01\text{ }^{\circ}\text{C}$ Full range

$\pm 0.02\text{ }^{\circ}\text{C}$ Full range

Heating Time:

10 min ($25\text{ }^{\circ}\text{C}$ to $140\text{ }^{\circ}\text{C}$)

16 min ($25\text{ }^{\circ}\text{C}$ to $140\text{ }^{\circ}\text{C}$)

11 min ($25\text{ }^{\circ}\text{C}$ to $140\text{ }^{\circ}\text{C}$)

Cooling Time:

11 min ($25\text{ }^{\circ}\text{C}$ to $-25\text{ }^{\circ}\text{C}$)

16 min ($25\text{ }^{\circ}\text{C}$ to $-35\text{ }^{\circ}\text{C}$)

25 min ($25\text{ }^{\circ}\text{C}$ to $-50\text{ }^{\circ}\text{C}$)

Electric Power:

200 W

300 W

400 W

Well Diameter x Depth:

$\varnothing 25.4\text{ mm}$ (1") x 124 mm

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$\varnothing 25.4\text{ mm}$ (1") x 124 mm

Dimension (HxWxD):

260 x 180 x 305 mm

260 x 180 x 270 mm

315 x 180 x 270 mm

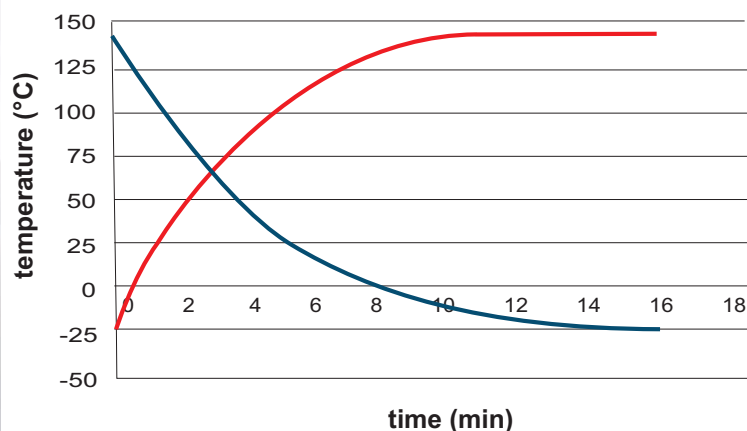
Weight:

9.0 kg

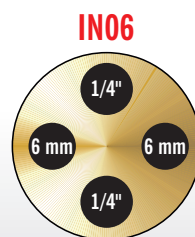
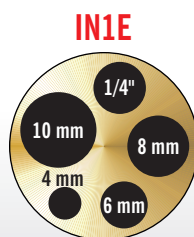
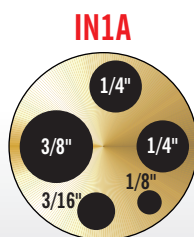
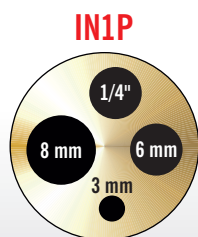
10.0 kg

12.0 kg

TE-25N Dry Block is fast, really fast!



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
IN01	1x 3/4"	06.04.0011-00
IN02	1x 1/2"	06.04.0012-00
IN03	1x 6.0 mm and 3x 1/4"	06.04.0013-00
IN04	3x 6.0 mm and 1x 1/4"	06.04.0014-00
IN05	4x 6.0 mm	06.04.0015-00
IN06	2x 6.0 mm and 2x 1/4"	06.04.0016-00
IN07	1x 6.0 mm 1x 8.0 mm and 1x 3/8"	06.04.0017-00
IN08	1x 6.0 mm 1x 3.0 mm and 2x 1/4"	06.04.0018-00
IN09	Without hole, to be drilled by the client	06.04.0019-00
IN10	Others, under ordering	06.04.0020-00
INCL	Cup-like insert (for use with tiny steel balls)	06.04.0086-00
IN1P	1 x 3mm, 1 x 6mm, 1 x 8mm, 1 x 1/4"	06.04.0121-00
IN1A	1 x 1/8", 1 x 3/16", 2 x 1/4", 1 x 3/8"	06.04.0122-00
IN1E	1 x 4mm, 1 x 6mm, 1 x 1/4", 1 x 8mm, 1 x 10mm	06.04.0123-00

Order Code

Power Supply **TE-25N / TE-35N / TE-50N** - ☐ - IN ☐ ☐

1 - 115 Vac 2 - 230 Vac

Included Insert _____

Choose from those listed above.

Included Items

Insert (selectable), insert extractor tool, test leads, power cord, manual and calibration certificate.

Optional Accessories

- Soft Carrying Case - Order Code: 06.01.0006-00
- Communication Interface - Order Code: 06.02.0002-00
- Cup-like insert and tiny steel balls



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Your Distributor: