

PRESYS[®]

Reference Grade Temperature Calibrator TS-1200PLAB



up to **1200 °C**

- ➔ Resolution 0.01 °C.
- ➔ Stability 0.10 °C @ 1100 °C.
- ➔ Homogeneity 0.35 °C @ 1100 °C.
- ➔ Measurement Zone: 100 mm.
- ➔ Immersion: 300 mm.
- ➔ ITS-90 Coefficients for RTD test sensors and Deviation Function for TC test sensors.

➔ Information Infrastructure:

- ➔ Ethernet, Wireless, USB, TCP/IP - Built-in Web Server.

www.presyscorp.com

Technical Specification	TS-1200PLAB
Operating Range (ambient temperature 23 °C)	50 to 1200 °C / (122 to 2192 °F)
Accuracy	± 1 °C
Resolution	0.01 °C
Stability	± 0.1 °C
Axial Uniformity (100 mm)	± 0.30 @ 300 °C ± 0.35 @ 600 °C ± 0.35 @ 1100 °C
Radial Uniformity (between opposite holes)	± 0.02 @ 300 °C ± 0.07 @ 600 °C ± 0.09 @ 1100 °C
Loading effect (4 probes x 1 probe)	± 0.10 @ 200 °C ± 0.20 @ 600 °C ± 0.20 @ 1100 °C
Hysteresis	0.2 °C
Heating Time	4 h (25 to 1100 °C)
Cooling Time	10 h (1100 to 200 °C)
Well diameter / depth	Ø 34 x 300 mm
Display	5.7" Resistive touch-screen
Units / Temperature Scales	°C, °F, K, °R / ITS-90 or IPTS-68, user selectable
Dimensions (HxWxD)	Vertical Model: 670 x 310 x 410 mm Horizontal Model: 360 x 635 x 401 mm
Weight	30 kg
Power supply	220 V, 50/60 Hz
Electric power	6000 W
Warranty	1 year

Electrical Input Ranges Specifications

Input Ranges	Resolution	Accuracy	Remarks
millivolt 0 to 70 mV	0.0001 mV	± 0.002 % FS	R _{input} > 10 MΩ
Resistance 0 to 500 Ω	0.0001 Ω	± 0.004 Ω	Excitation current 1.0 mA
*Pt-100 -200 to 850 °C / -328 to 1562 °F	0.001 °C / 0.001 °F	± 0.01 °C / 0.02 °F	Excitation current 1.0 mA
*Pt-25 -200 to 850 °C / -328 to 1562 °F	0.001 °C / 0.001 °F	± 0.01 °C / 0.02 °F	Excitation current 1.0 mA
TC-J -210 to 1200 °C / -346 to 2192 °F	0.01 °C / 0.01 °F	± 0.03 °C / 0.06 °F	IEC-60584
TC-K -270 to 1370 °C / -454 to 2498 °F	0.01 °C / 0.01 °F	± 0.04 °C / 0.08 °F	IEC-60584

FS = Full Scale

All specifications are valid for one year.

* Specifications valid for standard curve.

It also has input for thermocouples type T, B, R, S, E, N, U, C, Au-Pt.

Thermocouple with internal cold junction compensation, one must consider the error of this cold junction compensation of up to ± 0.2 °C or ± 0.4 °F.

Configurable parameters of thermoresistance coefficients using ITS-90 and Callendar-Van Dusen (adb curves and abc).

Order Code

TS-1200PLAB - [] - [] - IN [] []

Model

H - Horizontal V - Vertical

Electrical Power

2 - 220 Vac

Insert Included

Choose from among the inserts listed below.

Accessories

Order Code

Inserts:	Holes	TS-1200PLAB-V	TS-1200PLAB-H
IN01	1x 3/4"	06.04.0051-00	06.04.0075-00
IN02	1x 1/2"	06.04.0052-00	06.04.0076-00
IN03	1x 6.0 mm and 3x 1/4"	06.04.0053-00	06.04.0077-00
IN04	3x 6.0 mm and 1x 1/4"	06.04.0054-00	06.04.0078-00
IN05	4x 6.0 mm	06.04.0055-00	06.04.0079-00
IN06	2x 6.0 mm and 2x 1/4"	06.04.0056-00	06.04.0080-00
IN07	1x 6.0 mm, 1x 8.0 mm and 1x 3/8"	06.04.0057-00	06.04.0081-00
IN08	1x 6.0 mm, 1x 3.0 mm and 2x 1/4"	06.04.0058-00	06.04.0082-00
IN09	Without hole, to be drilled by the client.	06.04.0059-00	06.04.0083-00
IN10	Others, under ordering.	06.04.0060-00	06.04.0084-00
IN11	2x 1/4" 2x 7 mm	06.04.0061-00	06.04.0085-00