



Multifunctional Temperature Calibrator T-1200PH

- Generates temperatures from 50 °C to 1200 °C.
- Dry Block and Black Body Inserts.
- Horizontal mounting, facilitates infrared thermometer calibration.

Technical Specifications T-1200PH

Operating Range ambient temperature: 23°C	50 °C to 1200 °C
Accuracy internal reference	± 3 °C
with external thermometer	± 0.75 °C
Resolution:	± 0.1 °C
Stability:	± 0.2 °C
Heating Time:	45 min (100 °C to 1200 °C)
Cooling Time:	5h (1200 °C to 200 °C)
Temperature Uniformity:	± 0.2 °C

Weight:	10.3 kg
Power Supply:	220 Vac, 50/60Hz
Electric Power:	2300 W
Units / Temperature Scales:	°C or °F / IPTS-68 or ITS-90, user selectable
Display:	Graphic vacuum fluorescent with contrast adjustment
Well Diameter / Depth	Ø 34 mm x 130 mm
Dimensions: (HxWxD)	215 x 390 x 310 mm
Warranty:	1 year, except for rechargeable battery

Electrical Input Specifications

Input Ranges	Resolution	Accuracy
millivolt		
-150 to 150 mV	0.001 mV	± 0.01 % FS
-500 to -150 mV	0.01 mV	± 0.02 % FS
150 to 2450 mV	0.01 mV	± 0.02 % FS
mA		
-5 to 24.5 mA	0.0001 mA	± 0.02 % FS
resistance		
0 to 400 Ω	0.01 Ω	± 0.01 % FS
400 to 2500 Ω	0.01 Ω	± 0.03 % FS
Pt-100		
-200 to 850 °C	0.01 °C	± 0.1 °C
Pt-1000		
-200 to 400 °C	0.1 °C	± 0.1 °C
TC-B		
50 to -250 °C	0.1 °C	± 2.5 °C
250 to 500 °C	0.1 °C	± 1.5 °C
500 to 1200 °C	0.1 °C	± 1.0 °C
1200 to 1820 °C	0.1 °C	± 0.7 °C
TC-J		
-210 to 1200 °C	0.1 °C	± 0.2 °C

Input Ranges	Resolution	Accuracy
TC-K		
-270 to -150 °C	0.1 °C	± 0.5 °C
-150 to 1370 °C	0.1 °C	± 0.2 °C
TC-T		
-260 to -200 °C	0.1 °C	± 0.6 °C
-200 to -75 °C	0.1 °C	± 0.4 °C
-75 to 400 °C	0.1 °C	± 0.2 °C
TC-N		
-260 to -200 °C	0.1 °C	± 1.0 °C
-200 to -20 °C	0.1 °C	± 0.4 °C
-20 to 1300 °C	0.1 °C	± 0.2 °C
TC-R		
-50 to 300°C	0.1 °C	± 1.0 °C
300 to 1760 °C	0.1 °C	± 0.7 °C
TC-S		
-50 to 300 °C	0.1 °C	± 1.0 °C
300 to 1760 °C	0.1 °C	± 0.7 °C

Accuracy values are valid within one year and temperature range from 20 to 26 °C. Outside these limits add 0.001 % FS / °C, taking 23 °C as the reference temperature. For thermocouples with internal cold junction compensation, add a cold junction compensation error of ± 0.2 °C or ± 0.4 °F.

Order Code

T-1200PH – – IN –

Power Supply

1 - 110 Vac* - 2 - 220 Vac *upon request

Included Insert

Choose between the inserts listed below. Unless specified, the accompanying insert is IN06.

Black Body Insert

BB - Black Body Insert

Accessories

Inserts:	Holes
IN01	1x 3/4"
IN02	1x 1/2"
IN03	1x 6.0 mm and 3x 1/4"
IN04	3x 6.0 mm and 1x 1/4"
IN05	4x 6.0 mm
IN06	2x 6.0 mm and 2x 1/4"
IN07	1x 6.0 mm, 1x 8.0 mm and 1x 3/8"
IN08	1x 6.0 mm, 1x 3.0 mm and 2x 1/4"
IN09	Without hole, to be drilled by the client
IN10	Others, under ordering

Order Code

T-1200PH
06.04.0031-00
06.04.0032-00
06.04.0033-00
06.04.0034-00
06.04.0035-00
06.04.0036-00
06.04.0037-00
06.04.0038-00
06.04.0039-00
06.04.0040-00

Serial Communication: Modbus® RTU Protocol (RS-232/ RS-485).

Included Items: carrying case, straps, insert (selectable), insert extractor tool, test leads, insulation, manual and power cord.

Optional Accessories:

Black Body kit with thermocouple - Order Code: 06.04.0074-00.
Communication Interface - Order Code: 06.02.0002-00.