PTB1200 DryBlock Calibrator 100-1200°C

Calibrate with confidence

- Range from 100 to 1200 °C
- 190 x 34 calibration volume

The PTB 1200 is an high temperature calibrator designed for both laboratory and on-site use. It is ideal to calibrate temperature sensors in a wide range from 100 to 1200 °C. It feature a long effective immersion depth of 190 mm which make it suitable for calibrating even larger temperature sensors.

The standard metal insert have 4 pockets (holes) of 125 mm depth- A Ceramic insulator with length of 65 mm is supplied as standard. This makes an overall immersion depth of 190 mm which is considerably deeper than any comparable tempera-ture calibrator in the market. Deeper immersion depth allow for large diameter temperature sensors to be calibrated

We offer a wide range of customised inserts to match customer applications.

Standard Metal Block Insert 34x 160 mm 190 mm depth effective depth

Ø 4,8 x 125 mm
Ø 6,4 x 125 mm
Ø 9,5 x 125 mm
Ø 12,8 x125mm

Standard Insert include with 4 pockets , depth 125 mm + 65 mm insulator. Effective depth 190 mm

Optional Insert 34x 160 mm blank 190 mm depth effective depth

Optional Blank Insert for local machining or customised insert available on request. Supplied with 65 mm matching ceramic insulator

Stand-alone automatic switch test

Set your automatic ramp (slope) with up to 0.1C per minute rate. The PTB 1200 will store for you the contact open and closed. No need for any additional mustimeter.

Maximise your time and perform other tasks while the PTB will do the job for you.

Detailed specifications

Temperature Range	
@ Ambient Temperature	100°C to 1200 °C
Stability (measured over 30 mins)	± 0.15 °C
Accuracy	
with Internal Reference Sensor	± 3 °C
Uniformity	
Axial (from 0 to 40 mm from the bottom)	±1,3°C @ 1000 ºC ±0,4°C @ 200 ºC
Display Settings	
Set Point Range	Ambient °C to 1200 °C
Resolution	0.01º C/F full range
Units	user-selectable C, F
Calibration Volume	
Effective Immersion depth	190 mm
Insert Diameter	34 mm
Standard Insert	Inconell , 34 x 160 mm, with 4 holes all 125 mm depth plus 65 mm ceramic Insulator Ø 4,8 x 125 mm Ø 6,4 x 125 mm Ø 9,5 x 125 mm Ø 12,8 x 125mm
Heating Rate	15 ºC/min
Cooling Rate	7 ºC/min
General	
Computer interface	USB communication via USB adapter supplied as standard
Switch Test	Yes with automatic log of switch open and switch closed
Ramp	Yes fully programmable
Weight	10.5 Kg
Dimensions	165 x 355 x 390 mm
Power Requirement	115 o 230 V - 50/60 Hz
Power	700 VA @ 230 V
Scope of Supply	

Each PTB1200 is supplied with: Power Cable, USB/RS232 cable, switch test lead, standard insert, insert removal tool, traceable calibration certificate and instruction manual

EIUK Calibration Software (Included)

EIUK Calibration Software is a highly versatile calibration software that is supplied together with the PTB/PLB calibrators. The software ensures easy calibration of all kind of temperature sensors, such as RTD´s, thermocouples, transmitters and temperature switches

EIUK Calibration Software may also be used for manual calibrations, as it can be set up to accept manual entry of calibration data together with other

SRS-TC Reference Sensor (Optional)

Improve accuracy and reduce stem error by using our range of type "S" high stability reference sensors. With use with our PTB1200 we offer both a 500 mm or 300 mm probe. They are constructed from Platinum Rhodium - 10% / Platinum with ceramic shield and can be used to 1400°C. They are supplied with 1M of compensating cable terminated with a miniature thermocouple plug

Model	Range	Length	Diameter
SRS-TC-S-500M	0-1400C	500 mm	7 mm
SRS-TC-S-300M	0-1400C	300 mm	5 mm
SRS-CASE-01	Wooden Carrying Case		

East Temp Reference Thermometer (Optional)

Use the SRS temperature sensor in conjunction with our Easy Temp Reference thermometer

- High accuracy: 0.02% of reading
- 14 types of T/C and mA
- Correction of Calibrated Sensors for maximum accuracy
- 0.01°C resolution

How to order

Model	Range	Mains
PTB1200-TS-220-EU	100-1200C	220-240 V
PTB1200-TS-110-US	100-1200C	110-115 V

Standard Accessories included with each PTB

PTB 1200 Temperature Calibrator
Standard Insert 34x160 mm + 65 mm ceramic insulator
Insert Removal tool
Mains Power Cable
Calibration Certificate
EIUK Calibration Software
USB converter/cable

Accessories

PTB1110-CASE-01 Aluminium carry case

Aluminium carry case with customised space for PTB1200, inserts and accessories