

PEGASUS 1200

Large volume portable calibration dry block, 150°C to 1200°C

Pegasus 1200 is a large volume portable calibration dry block for temperature thermometers from 150°C to 1200°C. Combined with accessories, it can also be converted into a Blackbody Source for infrared thermometers.

- Large calibration volume: 33.5 x 130 mm depth
- High operating range: up to 1200°C
- Fast heating with optimized thermal profile
- Good temperature uniformity

Description

Pegasus 1200 is a large volume portable calibration dry block for temperature thermometers from 150°C to 1200°C. A Blackbody target can be added for the calibration of infrared thermometers.

- Large calibration volume: 33.5 x 130 mm depth
- High operating range: up to 1200°C
- Fast heating with optimized thermal profile
- Good temperature uniformity

It offers extreme high temperature calibration in an easy to use portable package, ideal for the calibration of high temperature thermocouples. It has been designed for fast heating and finds applications in the glass, electrical power, automotive and material processing industries.

The standard insert has four 8 mm holes of 80 mm deep. The metal insert is strategically placed beneath 50 mm of insulation to provide optimal performance over the radiant temperature range.

Pegasus 1200 is available in two models, the BASIC (B) and the SITE (S).

The B model should be used with an external reference probe and indicator. The thermocouples under test should be calibrated by comparison to the external probe.

The S model additionally includes an in-built temperature digital indicator to which an external temperature thermometer should be connected, giving greater accuracy eliminating temperature gradient and loading errors. The recommended probe is a Type R thermocouple. The optional Blackbody target is used with a special angled Type R thermocouple that sits immediately behind the target area.

The S model has universal sensor input allowing platinum resistance thermometers, thermocouples (Types K, N, R, S, L, B, PL2, T, J and E) along with Linear Process Inputs including to be displayed on the inbuilt indicator. The indicator can be programmed with up to five calibration points to provide high accuracy digital probe matching. The indicator and controller are both addressable over the communications link.

Specifications

Temperature range	150°C to +1200°C
Absolute stability over 30 min	±0,1°C at 150°C ±0,2°C at 1200°C ±0,3°C for Blackbody source
Cooling time	1200°C to 800°C: 50 min 1200°C to 200°C: 180 min Can be substantially reduced by the cooling adaptor
Heating time	25°C / min
Calibration volume	33.5 x 130 mm depth
Standard insert	4 holes: 8 mm Depth: 80 mm

General specifications

Size	302 x 176 x 262 mm
Weight	13 kg
Display	Resolution: 0.1°C up to 999.9°C and 1°C beyond 1000°C Units: °C, °F, K
Power supply	100 / 120 V (50/60 Hz) or 200 / 240 V (50/60 Hz) 800 Watts
Communication ports	RS 232

Models and accessories

Instrument:

PEGASUS B Portable dry block calibrator – Basic model

Delivered in standard with:

- Standard insert with 4 holes of diameter: 4x 8 mm, depth: 80 mm
- Cal Notepad software
- Serial communication cable
- User manual
- Traceable certificate

PEGASUS S Portable dry block calibrator – On Site model

Delivered in standard with:

- Standard insert with 4 holes of diameter: 4x 8 mm, depth: 80 mm
- Cal Notepad software
- Serial communication cable
- User manual
- Traceable certificate
- Built-in digital indicator
- Connector for probe 935-14-91

Metal block bath:

853-06-01 Standard insert with 4 holes of diameter: 4x 8 mm
Depth: 80 mm

853-06-02 Blank insert

853-06-02b Non-standard insert

935-14-91 Semi standard thermocouple type R

UKAS 5 point comparison calibration (On Site model only)

Blackbody source:

853-06-03 Blackbody target

Other accessories:

853-04-02 Rapid air cooling

935-14-40 Replacement Blackbody probe

970-01-03 Spare insulation pack for Blackbody source

853-06-04 Spare insulation pack for metal block bath insert

931-22-64 Carrying case

Packing information:

Size 302 x 176 x 262 mm

Weight without packing 13 kg