

Thermal Cal 1

Portable Thermocouple Calibration Furnace

A portable horizontal tube furnace intended for use as a thermocouple calibrator. It is a high stability heat source designed for the calibration of thermocouples up to 8mm in diameter, with a maximum operating temperature of 1100°C. Thermal Cal 1 is completely portable and the element/work tube's special design results in a temperature uniformity not normally associated with a furnace of this size.

The work tube is earthed and external earth lead with clip is provided for when calibrating metal-sheathed or mineral insulated thermocouples. This is for operator safety and it stops induced EMF interference being induced into the thermocouples under test. The Thermal Cal 1 can be used on site or in a laboratory for the checking or calibration of most thermocouples. Rapid heating up and stabilisation make it ideal for checking thermocouples in situ, avoiding costly downtime.



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Specifications

Range	400 - 1100 °C
Cavity Diameter	15mm
Cavity Length	320mm
Heated Cavity Length	260mm
Maximum Short Duration Temperature	1100 °C
Maximum Continuous Temperature	1050 °C
Uniformity Over Centre 50mm	Better than ± 1 °C
Stability	Better than ± 1 °C
Temperature Controller	Digital PID Controller displays process value and setpoint.
Over-temperature Protection	Built-in as standard
Heating Time	25 minutes 20°C to 1100 °C
Cooling Time	60 minutes 1100 to 400 °C, 60 minutes 400 °C to 100 °C
Size (WxHxD)	400mm x 370mm x 220mm
Weight	7Kg
Supply Voltage	230Vac Model or 115Vac Model, 50/60Hz
Power Consumption	1.1KW

Ordering Code

Thermal Cal 1 – 230Vac	THERMALCAL1-230V
Thermal Cal 1 – 115Vac	THERMALCAL1-115V

Price: £950.00
+ VAT & delivery

Certification

A TMS Europe calibration certificate traceable to national standards stating temperature error between work space temperature and indicated temperature, at 700°C & 1000°C is provided as standard.

A UKAS calibration certificate is available for this product at customer specified points (as an optional extra), please contact us for a price.

A suitable UKAS calibrated standard thermocouple and indicator are optionally available, which are recommended for comparison of thermocouples under calibration, see our leaflet "No error temperature Measuring System".



Specification and price subject to change without notice. All trade marks acknowledged.