

# High Temperature Dry Block Calibrator

TRODEKS®

CL1201



Standard

- ✓ Wide Temperature Range  
400 to 1200°C  
(752 to 2192°F)
- ✓ Simple to Use
- ✓ Highly Accurate  $\pm 3^{\circ}\text{C}$   
( $\pm 6^{\circ}\text{F}$ ) Entire Range and  
Excellent Stabilities to  
Within  $\pm 0.1^{\circ}\text{C}$  ( $\pm 0.2^{\circ}\text{F}$ )
- ✓ Calibrates  
Thermocouples  
and RTD's
- ✓ Multi-Hole Insert  
Block For Accurate  
Comparison Calibration
- ✓ Interchangeable  
Test Wells
- ✓ Rapid Heating/  
Cooling Rates
- ✓ Automatic Fan Cooling
- ✓ Rugged Case with  
Carry Handle
- ✓ Completely Portable for  
Factory, Laboratory and  
Instrument Shops
- ✓ RS232 Communications  
Standard
- ✓ Free Software
- ✓ NIST Certificate  
Included

The CL1201 is designed to provide very accurate and repeatable thermal calibration between 400°C and 1200°C for a wide variety of thermocouples and other temperature sensors in industries such as glass manufacture, power generation, automotive and material processing. This rugged, economically priced portable thermocouple dry block calibrator is supplied with a NIST traceable certificate. The unit provides excellent stabilities to within  $\pm 0.1^{\circ}\text{C}$  and has display accuracy of better than  $\pm 3^{\circ}\text{C}$  between 400 and 1200°C.



CL1201

All models shown smaller than actual size.

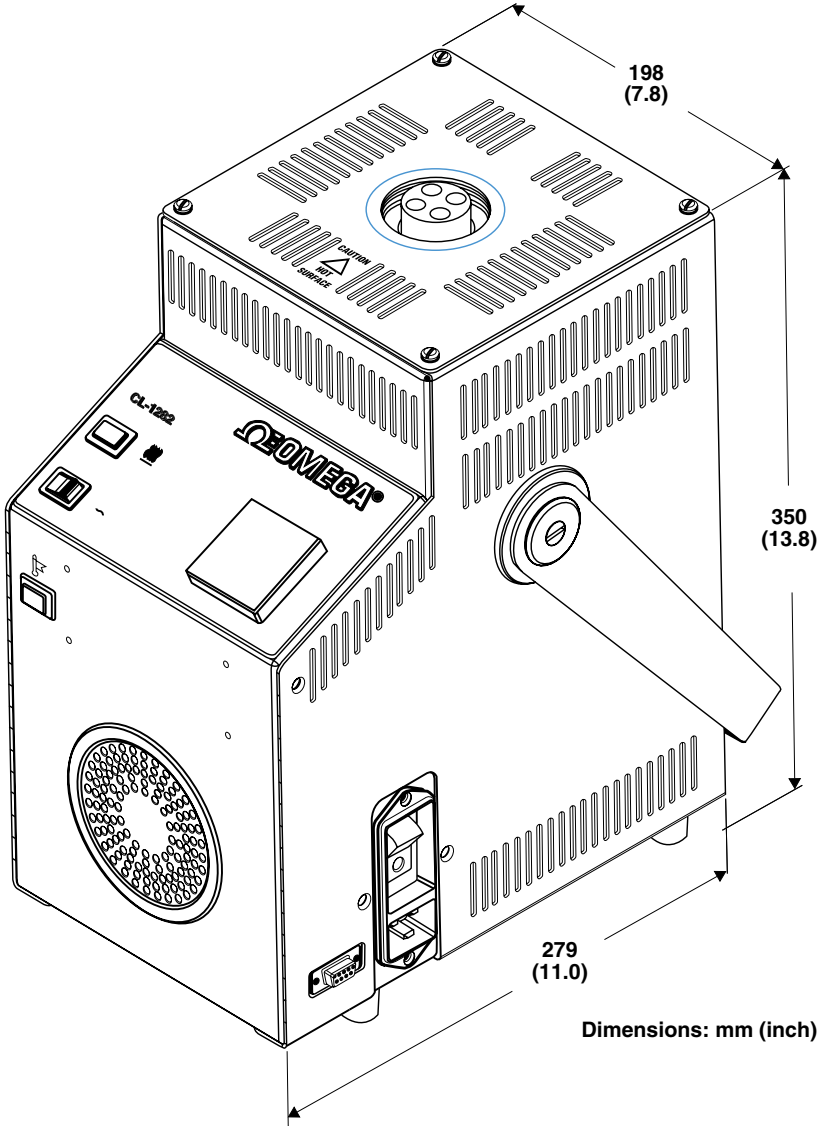
CL1201B-C  
test well insert.

CL1201B-E  
test well insert.

The CL1201 block calibrator utilizes a special heater design for optimum temperature uniformity and rapid heating rates. The heating system consists of heater elements embedded in lightweight vacuum-formed ceramic fiber moldings which allows faster heating rates and extends the working life above other ceramic tube designs which have heater elements wrapped around a ceramic tube. An isothermal block assembly is machined from a special alloy giving excellent thermal conductivity and also resists high temperature oxidation. This block is designed to optimize performance between sufficient mass for good stability and uniformity and to have a low enough mass to have rapid heating/cooling rates and short stabilization periods. RS232 communications is standard.

Specifications

**Minimum Temperature:** 400°C (752°F)  
**Maximum Temperature:** 1200°C (2192°F)  
**Display Accuracy:** ±3°C (±6°F)  
**Temperature Uniformity:** ±0.2°C (±0.4°F)  
**Temperature Stability:** ±0.2°C (±0.4°F) at 1200°C (2192°F) after 20 mins  
**Display Resolution:** 0.1° to 999.9 then 1° to 1200°C  
**Selectable:** °C or °F  
**Heating Rate:** 100 to 1200°C, 20 min  
**Cooling rate:** 1200 to 200°C, 140 min  
**Fan Cooling:** Automatic  
**Power:** 120 Vac, 50/60 Hz 230 Vac, 50/60 Hz, 1600 W  
**Large Insert Size:** 34 D x 155 mm Deep (1.33 x 6.10")  
**Dimensions:** 350 H x 198 W x 279 mm D (13.8 x 7.8 x 11.0")  
**Weight:** 10 kg (22 lb)



Dimensions: mm (inch)

To Order	
Model No	Description
CL1201	High temperature block calibrator, 120 Vac, no insert
CL1201-230V	High temperature block calibrator, 230 Vac, no insert
CL1200-HC	Replacement hard carrying case

Inserts and Ceramic Block Insulators (Must Order as a Pair)

Model No	Description
CL1200IB-A	Insert, 4 x 8.0 mm
CL1200CB-A	Ceramic block insulator for insert CL1200IB-A
CL1200IB-B	Insert, 2 x 3 mm, 2 x 4 mm, 2 x 6 mm
CL1200CB-B	Ceramic block insulator for insert CL1200IB-B
CL1200IB-C	Insert, 1/8, 1/4, 3/16, 5/16, 3/8"
CL1200CB-C	Ceramic block insulator for insert CL1200IB-C
CL1200IB-D	Insert, 2 x 3/16, 2 x 1/4, 2 x 3/8"
CL1200CB-D	Ceramic block insulator for insert CL1200IB-D
CL1200IB-E	Insert, 6 x 1/4"
CL1200CB-E	Ceramic block insulator for insert CL1200IB-E