

High Temperature Dry Block Calibrator

CL1201



- ✓ 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

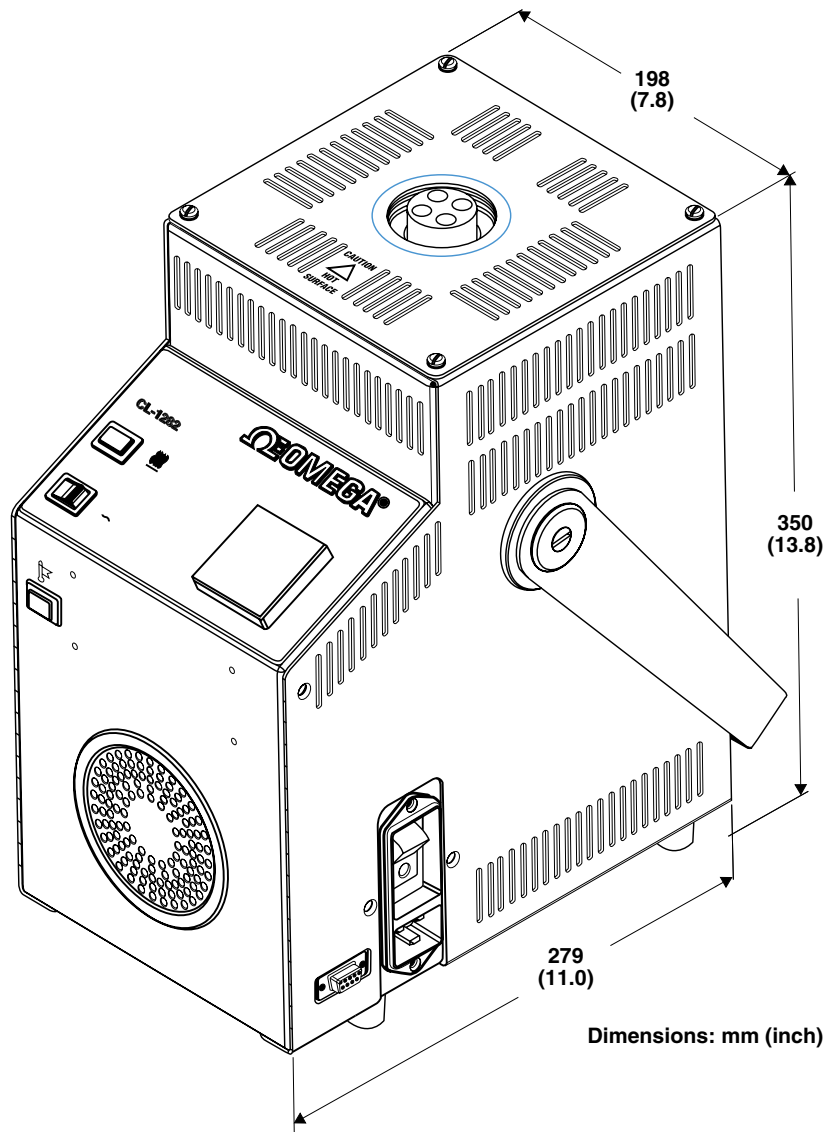


CL1200IB-C
test well insert.

CL1200IB-E
test well insert.

All models shown smaller
than actual size.

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)



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

To Order Visit omega.com/cl1201 for Pricing and Details

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

Comes complete with software, hard carrying case, and operator's manual.

Ordering Example: CL1201 high temperature block calibrator, 120 Vac, CL1200IB-C insert, 1/8, 1/4, 3/16, 5/16, 3/8" and CL1200CB-C ceramic block insulator.

OCW-2, OMEGACARESM extends standard 3-year warranty to a total of 5 years.