

Dry Block Calibrators

Calibration Monitoring Software Included

CL-700A



The Most Comprehensive Solution to Your Probe Calibration Needs!

- ✓ CE Marked
- ✓ Housed in a Rugged Metal Case for Field Use
- ✓ RS232 Computer Interface for Data and Program Transfer or Real-Time Control
- ✓ High Accuracy and Stability for Certifying Temperature Sensors and Hydraulic Thermostats
- ✓ Fast Settling Time for Rapid Testing
- ✓ Large Interchangeable Insert Format
- ✓ Fast Heat-Up and Cool-Down Times
- ✓ Improved Temperature Zone Uniformity and Control Stability
- ✓ 4-Line by 20-Character LCD and 8-Button Keypad for Entering Programs and Viewing Data
- ✓ Create, Use and Store Programs and Test Results Internally
- ✓ Program Set Temperature, Ramp Rate, Hold Time, "Pause on Switch Changeover" Operation and Hold Until Pause Pressed
- ✓ Switch Test Input for Monitoring Hydraulic Thermostats



CL-750A shown smaller than actual size.

Specifications

Inputs and Outputs

Serial Interface Port (RS232):

Bi-directional, 9600 Baud

Connector: 9-way, D-type

Hardware: No handshaking

Switch Test Sockets: 4 mm

Voltage: 120V (230V optional)

Hz: 50/60

Watts: 400

Measuring Zone: 0 to 50 mm

(0 to 1.97") from base of well

Display Resolution: 0.1°C or 0.1°F

Programmable Ramp Rate (°C/min):

0.18 to 77

Communication Port, 9-Way D-Type:

Full, bi-directional RS232

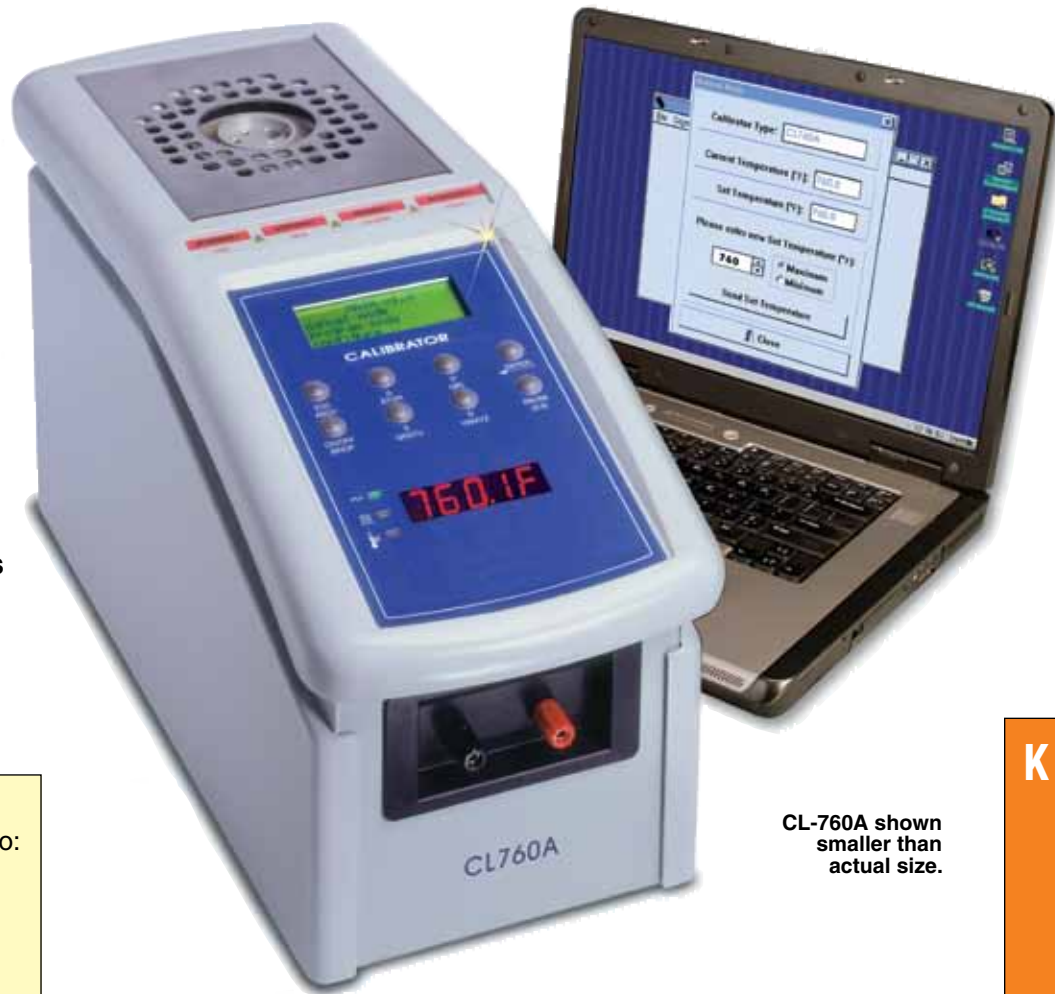
Environmental Specifications

Ambient Temperature:

10 to 30°C (50 to 86°F)

Humidity:

Up to 95% non-condensing



CL-760A shown smaller than actual size.

Software

Windows® program allows user to:

- ✓ Monitor the Temperature of the Calibrator from the PC
- ✓ Control the Calibrator in Real-Time
- ✓ Create/Store/Retrieve Programs on a PC for Transmission to a Calibrator
- ✓ Read Data from the Calibrator and Produce Certificates on the PC*
- ✓ Export Data to other Windows Programs
- ✓ Present Live or Stored Data on the PC in a Graphical and Tabular Format
- ✓ 10 Ramp/Soak Programs with 10 Segments Maximum

Fully Featured

Model No.	Program Storage	Switch Input	PC Software
CL-740A	✓	✓	✓
CL-760A	✓	✓	✓
CL-750A	✓	✓	✓

OA = Optional Accessories.

* CL-740A, CL-750-A, CL-760A only.



CL-740A Specifications

Minimum Temperature: -45°C* (-50°F) below ambient
Voltage: 120V (230V optional)
Hz: 50/60
Watts: 400
Maximum Temperature: 140°C (284°F)
Temperature Accuracy in Measuring Zone: ±0.3°C (±0.54°F)
Temperature Uniformity in Measuring Zone: ±0.2°C** (±0.36°F)
Measuring Zone: 0 to 50 mm from base of well (0 to 1.97")
Temperature Stability After 10 min: ±0.05°C (±0.09°F)
Display Resolution: 0.1°C or 0.1°F
Heating Rate: 20 to 100°C (68 to 212°F), 5 minutes
Cooling Rate: 100 to 0°C (212 to 32°F), 9 minutes
Programmable Ramp Rate (°C/min): 0.1 to 25, on CL-740A (0.18 to 77)
Switch Test: On CL-740A
Comms Port, 9 Way D Type: Full bi-directional RS232
Weight: 13.5 kg (29.76 lb)
Dimensions: 285 H x 190 W x 426 mm D (11 x 7 x 17")
** With 4°C water circulated through the unit.
 ** At 100°C.*

CL-760A Specifications

Minimum Temperature: 20°C (68°F) above ambient
Voltage: 120V (230V optional)
Hz: 50/60
Watts: 700
Maximum Temperature: 425°C (797°F)
Temperature Accuracy in Measuring Zone: ±0.3°C (±0.54°F)
Temperature Uniformity in Measuring Zone: ±0.2°C* (±0.36°F)
Measuring Zone: 0 to 50 mm from base of well (0 to 1.97")
Temperature Stability After 10 min: ±0.05°C (±0.09°F)
Display Resolution: 0.1°C or 0.1°F
Heating Rate: 20 to 400°C (68 to 752°F), 15 minutes
Cooling Rate: 400 to 100°C (752 to 212°F), 25 minutes
Programmable Ramp Rate (°C/min): 0.1 to 25, on CL-760A (0.18 to 77)
¼" Reference Hole in Block: Yes
Switch Test: On CL-760A
Fan Cooling: Automatic
Comms Port, 9 Way D Type: Full bi-directional RS232
Weight: 9.1 kg (20 lb)
Dimensions: 285 H x 190 W x 426 mm D (11 x 7 x 17")
** At 300°C (572°F).*

CL-750A Specifications

Minimum Temperature: 25°C (77°F) above ambient
Voltage: 120V (230V optional)
Hz: 50/60
Watts: 1100
Maximum Temperature: 650°C (1202°F)
Temperature Accuracy in Measuring Zone: ±0.2°C (±0.36°F)
Temperature Uniformity in Measuring Zone: ±0.1°C* (±0.18°F)
Measuring Zone: 0 to 50 mm from base of well (0 to 1.97")
Temperature Stability After 10 min: ±0.09°C (±0.16°F)
Display Resolution: 0.1°C or 0.1°F
Heating Rate: 20 to 600°C (68 to 1112°F), 35 minutes
Cooling Rate: 600 to 200°C (1112 to 392°F), 30 minutes
Programmable Ramp Rate (°C/min): 0.1 to 25, on CL-750A (0.18 to 77)
¼" Reference Hole in Block: Yes
Switch Test: On CL-750A
Comms Port, 9 Way D Type: Full bi-directional RS232
Weight: 11.8 kg (26 lb)
Dimensions: 285 H x 190 W x 426 mm D (11 x 7 x 17")
** At 400°C (752°F).*



CL-760A shown smaller than actual size.

Inserts for CL-740A and CL-760A
(Insertion depth: 4.5")

Model No.	Description
CL701B	5 x 1/4"
CL702B	5 x 3/8", 5/16", 1/4", 3/16", 1/8"
CL703B	2 x 1/4", 2 x 3/8"
CL704B	2 x 1/4", 2 x 1/2"
CL705B	1 x 1/4", 9/16"
CL707B	1 x 1/4", 5/8"
CL708B	1 x 1/4", 11/16"
CL709B	1 x 1/4", 3/4"
CL710B	1 x 1/4"
CL706B	Insert undrilled

Inserts for CL-750A
(Insertion depth: 6")

Model No.	Description
CL701A	5 x 1/4"
CL702A	5 x 3/8", 5/16", 1/4", 3/16", 1/8"
CL703A	2 x 1/4", 2 x 3/8"
CL704A	2 x 1/4", 2 x 1/2"
CL705A	1 x 1/4", 9/16"
CL707A	1 x 1/4", 5/8"
CL708A	1 x 1/4", 11/16"
CL709A	1 x 1/4", 3/4"
CL710A	1 x 1/4"
CL706A	Insert undrilled



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

Model No.	Description	Range
CL-740A	Block calibrator	-45°C below ambient to 140°C
CL-750A	Block calibrator	25°C above ambient to 650°C
CL-760A	Block calibrator	20°C above ambient to 425°C

Comes complete with operator's manual, RS232 communication, PC software package (CD and RS232 cable), removable AC power cord, soft carrying case with carrying strap, insert extractor tool and 1x multi-hole insert (1/8, 3/16, 1/4, 5/16, 3/8").

To order with 230V, add suffix "-230" to model number, no additional charge.

Ordering Example: CL-740A, block calibrator with program storage, switch input, and PC software, CL7A-CHILL, circulating bath chiller.

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

Accessories

Model No.	Description
CAL-SOFT	Software CD and RS232 cable
CL7A-PROBE	Cooling coil for all units, shortens cool-down time
CL7A-CHILL	Circulating bath chiller, lowers effective unit operation at -40°C (-40°F) for CL-740