



Dry Block Calibrators

OMEGA's Portable Calibrator

Offers a Rugged and Lightweight Case

CL-700A Series
Starts at
£1850



- ✓ 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 Setting Time for Rapid Testing
- ✓ Large Interchangeable Insert Format for Flexibility of Use
- ✓ Fast Heat-Up and Cool-Down Times
- ✓ Improved Uniformity and Control Stability of the Temperature Zone
- ✓ Display Resolution: 0.01
- ✓ Traceable Calibration Certificate



CL-780A-, £1850,
shown smaller
than actual size.

The CL-700A Series models are shipped ready for use right out of the box complete with multi-well insert, AC power cable, insert removal tool, traceable calibration and RS232 interface. The CL-700A Series range is covered by an industry leading 3-year parts and labour warranty. The CL-700A

Series models use the same inserts as previous models, so you can easily upgrade without the need to replace any custom inserts you may already have. For those who want to run a unit from a PC we offer Calsoft software which is free for download from our website.





Specifications

CL-770A

Minimum Temperature:
45°C (113°F) below ambient

Maximum Temperature:
140°C (284°F)

Temperature Accuracy:
±0.3°C (32.5°F)

Temperature Uniformity (Radial):
±0.2°C (32.3°F)

Temperature Stability
(After 10 Min): ±0.05°C (32.09°F)

Display Resolution:
0.01°C or 0.1°F

Setpoint Resolution:
0.1°C or 0.1°F

Heating Rate, 20 to 100°C
(68 to 212°F): 5 min

Cooling Rate, 100 to 0°C
(212 to 32°F): 9 min

Large Well Inserts: 38 x 114.3 mm (1.5 x 4.5")

Dimensions:
267 H x 206 W x 290 D mm
(10.7 x 8.1 x 11.4")

Weight: 12.7 kg (28 lb)

RS232 Interface: Included

CL-780A

Minimum Temperature:
20°C (68°F) above ambient

Maximum Temperature:
425°C (797°F)

Temperature Accuracy:
±0.3°C (32.5°F)

Temperature Uniformity (Radial):
±0.2°C (32.3°F)

Temperature Stability
(After 10 Min):

200°C (392°F): ±0.03°C

425°C (797°F): ±0.05°C

Display Resolution:
0.01°C or 0.1°F

Setpoint Resolution:
0.1°C or 0.1°F

Heating Rate, 20 to 400°C: 12 min

Cooling Rate, 400 to 100°C:
21 min

Large Well Inserts: 38 x 114.3 mm
(1.5 x 4.5")

Dimensions:
269 H x 170 W x 254 D mm
(10.6 x 6.7 x 10.0")

Weight: 6.3 kg (14 lb)

RS232 Interface: Included

CL-790A

Minimum Temperature:
25°C (77°F) above ambient

Maximum Temperature:
650°C (1202°F)

Temperature Accuracy:
±0.4°C (32.7°F)

Temperature Uniformity (Radial):
±1.0°C (33.8°F)

Temperature Stability (After 10 Min):
±0.09°C (32.2°F)

Display Resolution: 0.01°C or 0.1°F

Setpoint Resolution: 0.1°C or 0.1°F

Heating Rate, 20 to 600°C: 34 min

Cooling Rate, 600 to 100°C: 33 min

Large Well Inserts: 38 x 152 mm (1.5 x 6.0")

Dimensions: 277 H x 170 W x 300 D mm
(10.9 x 6.7 x 11.8")

Weight: 10.8 kg (24 lb)

RS232 Interface: Included

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Description
CL-770A	£2260	Block calibrator 115 V Ambient -45 to +140°C
CL-770A-230	2260	Block calibrator 230 V Ambient -45 to +140°C
CL-780A	1850	Block calibrator 115 V Ambient +20 to 425°C
CL-780A-230	1850	Block calibrator 230 V Ambient +20 to 425°C
CL-790A	2295	Block calibrator 115 V Ambient +25 to 650°C
CL-790A-230	2295	Block calibrator 230 V Ambient +25 to 650°C

Accessories

Model No.	Price	Description
CL7A-CASE	£90	Soft carrying case for models CL-770A and CL-790A
CL780-CASE	90	Soft carrying case for model CL-780A

Comes with operator's manual, power cable, insert extractor tool, 1 multi-well insert, traceable calibration and RS232C interface.

Ordering Example: CL-770A-230, block calibrator 230V Ambient -45 to +140°C and CL7A-CASE, soft carrying case, £2260 + 90 = £2350.

Aluminium Inserts for CL-770A and CL-780A

To Order (Specify Model Number)

Metric Wells			Imperial Wells		
Model No.	Description	Price	Model No.	Description	Price
CL701B-M	5 x 6mm	£97	CL701B	5 x 1/4"	£97
CL702B-M	10/8/6/4.5/3mm	97	CL702B	3/8, 5/16, 1/4, 3/16, 1/8"	97
CL703B-M	2 x 6mm, 2 x 10mm	97	CL703B	2 x 3/8, 2 x 1/4"	97
CL704B-M	2 x 6mm, 2 x 12mm	97	CL704B	2 x 1/2, 2 x 1/4"	97
CL705B-M	11/9/5/4mm	97	CL705B	9/16"	82
CL706B	Undrilled	47	CL706B	Undrilled	47
CL707B-M	6mm, 9mm	97	CL707B	5/8"	82
CL708B-M	9 x 3.18mm	191	CL708B	11/16"	82
CL709B-M	8 x 3.18mm, 6mm	191	CL709B	3/4"	82
CL710B-M	4 x 10mm	97	CL710B	1/4"	82

Aluminium bronze Inserts for CL-790A

To Order (Specify Model Number)

Metric Wells			Imperial Wells		
Model No.	Description	Price	Model No.	Description	Price
CL701A-M	5 x 6mm	£149	CL701A	5 x 1/4"	£149
CL702A-M	10/8/6/4.5/3mm	237	CL702A	3/8, 5/16, 1/4, 3/16, 1/8"	237
CL703A-M	2 x 6mm, 2 x 10mm	149	CL703A	2 x 3/8, 2 x 1/4"	149
CL704A-M	2 x 6mm, 2 x 12mm	149	CL704A	2 x 1/2, 2 x 1/4"	149
CL705A-M	19.5mm	108	CL705A	9/16"	108
CL706A	Undrilled	61	CL706A	Undrilled	61
CL707A-M	12mm	108	CL707A	5/8"	108
CL708A-M	7 x 3.5mm	236	CL708A	11/16"	108
CL709A-M	2 x 16.5mm, 6.5, 11mm	237	CL709A	3/4"	108
CL710A-M	2 x 13, 6, 10mm	237	CL710A	1/4"	108



UNITED STATES

www.omega.com

1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca

Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de

Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk

Manchester, England
0800-488-488

FRANCE

www.omega.fr

088-466-342

CZECH REPUBLIC

www.omegaeng.cz

Karviná, Czech Republic
596-311-899

BENELUX

www.omega.nl

0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters