

hot point™ Dry Block Probe Calibrator CL900A/CL950A Series

CL900A Calibrator, shown with HH-21, handheld thermocouple and handle thermocouple probe (both not included). See section A for handle probes. See omega.co.uk for the HH-20 Series.



Shown smaller than actual size

- ✓ User Selectable °C or °F Display
- ✓ Calibrates Thermistors, Thermocouples and RTD's in Seconds
- ✓ Highly Accurate $\pm 0.8^{\circ}\text{C}$ ($\pm 1.5^{\circ}\text{F}$) & Exceptional Stability $\pm 0.2^{\circ}\text{C}$ ($\pm 0.3^{\circ}\text{F}$) for Precision Calibrations
- ✓ Completely Portable for Factory, Laboratory and Instrument Shops
- ✓ Wide Temperature Range Ambient +22 to 482°C (Ambient +40 to 900°F); Covers Most Industrial Applications
- ✓ Traceable Calibration Certificate Included
- ✓ RS-232 Standard
- ✓ Companion ice point™ Reference Cell Available Model TRCIII-A See Page K-5

CL900A Series Basic Unit



OMEGA's hot point™ calibrator is part of a new family of dry block calibrators which allows calibration of thermocouple and RTD probes quickly and easily with an accuracy to $\pm 0.8^{\circ}\text{C}$. An integral RTD sensor assures high measurement accuracy and repeatability. A built-in microprocessor-based PID digital controller assures exceptional stability. Setpoint and actual temperature are displayed simultaneously. Temperature can be set in one degree increments from ambient +22 to 482°C (ambient +40 to 900°F).

The CL900A calibrator accepts a variety of optional inserts which are available in 106 mm and 152 mm depths for standard imperial or metric diameter probes. An undrilled insert is also available. The CL900A comes complete

with a 152 mm deep insert well for 1/4" or 6 mm diameter probes, and insert removal tongs. Additional inserts can be ordered separately as required for other diameter probes. 152 mm well depth inserts are used for probes 180 mm and longer. 106mm well depth inserts are used for probes 130 mm and longer.

The CL950A has a fixed thermal well with 1/16", 1/8", 3/16" and 1/4" diameter holes. The CL950A-M has metric holes (2, 3, 4.5 and two 6 mm diameter holes).

OMEGACARE™ extended warranty programme is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE™ covers parts, labour and equivalent loan unit.

We make running changes when technical advances allow. Check at time of ordering for additional features.

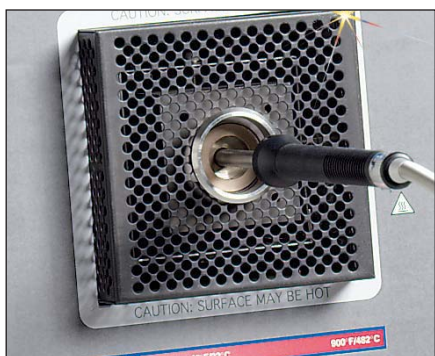
Caution: To avoid fire hazard or damage to your calibrator, always allow your calibrator to cool down to ambient temperature before returning to storage.





The model CL950A Imperial multi-well accepts up to 5 probes at one time and comes standard with 1/16", 1/8", 3/16" and two 1/4" diameter holes.

The model CL950A-M metric multi-well accepts up to 5 probes at one time and comes standard with 2 mm, 3 mm, 4.5 mm, and two 6 mm diameter holes



Model CL900A accepts any insert listed in the table at right

Specifications

(All specifications are based on the test probes, being in contact with the bottom of the test well)

Temperature Range: Ambient +22 to 482°C (Ambient +40 to 900°F)

Operating Ambient Temperature Range: 5 to 38°C (40 to 100°F)

Accuracy: (1° resolution)
 CL900A with 152 mm (6") test well inserts: ±0.8°C (±1.5°F)
 CL900A with 106 mm (4") test well inserts: ±1.7°C (±3°F). CL950A: ±0.8°C (±1.5°F)

Control Stability: ±0.15°C (±0.3°F)

Temperature Uniformity (within the bottom 25 mm/1" of the test well):
 CL900A: with 152 mm (6") test well inserts: ±0.3%rdg with 106 mm (4") test well inserts: ±0.4%rdg CL950A: ± 0.3% rdg

Max. Probe Immersion:
 CL900A: with 152 mm (6") test well inserts: 152 mm (6") with 106 mm (4") test well inserts: 106 mm (4")

CL950A: 152 mm (6")
Control: Microprocessor-based PID digital controller

Power:
 230 Vac, 50/60 Hz, 1050 Watts

Dimensions: 312 H x 363 W x 191 mm D (12.3 x 14.3 x 7.5")

Weight: 11.4 kg (25 lb)



Use Your CL900A standing up or tilted on a bench

Handheld Meter and Probes Sold Separately. See Section A.

Inserts for CL900A Series

Model Number	Description
CL901	Insert, 1/8" dia. x 4" deep test well
CL901-M	Metric insert, 2 mm dia. x 106.6 mm deep test well
CL902	Insert, 1/8" dia. x 6" deep test well
CL902-M	Metric insert, 2 mm dia. x 152.4 mm deep test well
CL903	Insert, 3/16" dia. x 4" deep test well
CL903-M	Metric insert, 3 mm dia. x 106.6 mm deep test well
CL904	Insert, 3/16" dia. x 6" deep test well
CL904-M	Metric insert, 3 mm dia. x 152.4 mm deep test well
CL905	Insert, 1/4" dia. x 4" deep test well
CL905-M	Metric insert, 4.5 mm dia. x 106.6 mm deep test well
CL906	Insert, 1/4" dia. x 6" deep test well
CL906-M	Metric insert, 4.5 mm dia. x 152.4 mm deep test well
CL907	Insert, 5/16" dia. x 4" deep test well
CL907-M	Metric insert, 6 mm dia. x 106.6 mm deep test well
CL908	Insert, 5/16" dia. x 6" deep test well
CL908-M	Metric insert, 6 mm dia. x 106.6 mm deep test well
CL909	Insert, 3/8" dia. x 4" deep test well
CL910	Insert, 3/8" dia. x 6" deep test well
CL911	Insert, undrilled

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model Number	Description
CL900A-220	hot point™ probe calibrator, 230 Vac, CE
CL950A-M-220	hot point™ metric multi-well probe calibrator, 230V
CL950A-220	hot point™ multi-well imperial probe calibrator, 230 Vac

Comes with CL906 test well, insert removal tongs, 3 point calibration certificate and complete operator's manual. Inserts are for CL900 and CL900A hot point™ calibrators only.
Ordering Example: CL900A-220, hot point™ calibrator, 230 Vac, and CL905 4" test well insert for 1/4" probes. OCW-3 OMEGACARE™ extends standard 1-year warranty to a total of 4 years.

omega.co.uk[®]

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

www.omega.co.uk



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