

# hot point® Dry Block Probe Calibrators



CL900/950 Series Starts at



CL950 hot point® dry block calibrator, shown smaller than actual size with MDSS41-TC benchtop thermometer, featured on page M-106, calibrating multiple thermocouple probes, see Section A.

## PATENTED

Covered by U.S. and International patents and pending applications

- ✔ Calibrates Thermocouples and RTD's in Seconds
- ✔ Highly Accurate 0.9°C (1.5°F) and Exceptional Stability (0.3°F) for Precision Calibrations
- ✔ Completely Portable for Factory, Laboratory and Instrument Shops
- ✔ Interchangeable Test Wells and CL950 Built-In 5 Port Well Design Provides Customer Flexibility
- ✔ Wide Temperature Range 40°F Above Ambient to 900°F (482°C) Covers Most Industrial Applications
- ✔ NIST Calibration Available

OMEGA's new hot point® calibrators allow calibration of thermocouple and RTD probes quickly and easily with accuracy to 0.9°C (1.5°F). 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 22°C (40°F) above ambient to 482°C (900°F).

The CL900 calibrator accepts a variety of standard and metric optional inserts which are available in 4" and 6" depths and for probe diameters from 1/8" to 3/8". An undrilled insert is also available. The CL900 comes complete with a 1/4" diameter, 6" deep insert well and insert block tongs. Additional inserts can be ordered separately as required for

other diameter probes. 6" depth inserts are used for probes 7" and longer; 4" depth inserts are used for probes 5" and longer.

The CL950 calibrator features a built-in well with 5 ports sized to accommodate a 1/6", 1/8", 3/16", and two 1/4" diameter probes. The multi-port design allows for the use of a calibrated or NIST-traceable probe and meter to be used as a standard while calibrating other probes. The 5 port design also allows for calibration of more than 1 probe at a time, and eliminates the need for separate insert wells.

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

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



CL950 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.



CL900 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 (40 to 900°F)

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

**Accuracy:** (1°F resolution)

CL900 with 6" Test Well Inserts:  
±1.5°F ±1 LSD

CL900 with 4" Test Well Inserts:  
±3°F ±1 LSD

CL950: ±1.5°F, ±1 LSD

**Control Stability:** ±0.3°F or better

**Temperature Uniformity (within the Bottom 1" of the Test Well):**

CL900 with 6" Test Well Inserts:  
0.3%

CL900 with 4" Test Well Inserts:  
±0.4%

CL950: ± 0.3%

**Max Probe Immersion:**

CL900 with 6" Test Well Inserts:  
150 mm (6")

CL900 with 4" Test Well Inserts:  
100 mm (4")

CL950: 150 mm (6")

**Control:** Microprocessor-based PID digital controller with data retention

**Power:** 110 to 125 Vac, 50/60 Hz, 1050 W; 220 Vac, 50/60 Hz, 1050 W

**Dimensions:**

300 H x 216 W x 311 mm D  
(11.75 x 8.5 x 12.25")

**Weight:** 10.1 kg (22.3 lb)



CL900-110 hot point® dry block calibrator, with DSS-460-K benchtop thermometer, calibrating a single thermocouple probe, shown smaller than actual size.

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## To Order (Specify Model Number)

Model No.	Description
CL900-110	hot point® calibrator, 110 Vac
CL900-220	hot point® calibrator, 220 Vac
CL950-110	Multi-well hot point® 110 V
CL950-220	Multi-well hot point® 220 V

Comes with operator's manual. Inserts are for CL900 and CL900A hot point® calibrators only. To order NIST Calibration points add suffix "-NIST" to model number.

**Ordering Example:** CL900-110, hot point® calibrator, 110 Vac, and CL905, 10 cm (4") test well insert for 6.3 cm (1/4") probes. OCW-3, OMEGACARE<sup>SM</sup> extends standard 1-year warranty to a total of 4 years.

## Inserts for CL900 Series

Model No.	Description
CL901	Insert, 1/8 dia. x 4" deep test well
CL901-M	Metric insert, 2 dia. x 101.6 mm deep test well
CL902	Insert, 1/8 dia. x 6" deep test well
CL902-M	Metric insert, 2 dia. x 152.4 mm deep test well
CL903	Insert, 3/16 dia. x 4" deep test well
CL903-M	Metric insert, 3 dia. x 101.6 mm deep test well
CL904	Insert, 3/16 dia. x 6" deep test well
CL904-M	Metric insert, 3 dia. x 152.4 mm deep test well
CL905	Insert, 1/4 dia. x 4" deep test well
CL905-M	Metric insert, 4.5 dia. x 101.6 mm deep test well
CL906	Insert, 1/4 dia. x 6" deep test well
CL906-M	Metric insert, 4.5 dia. x 152.4 mm deep test well
CL907	Insert, 3/8 dia. x 4" deep test well
CL907-M	Metric insert, 6 dia. x 101.6 mm deep test well
CL908	Insert, 3/8 dia. x 6" deep test well
CL908-M	Metric insert, 6 dia. x 152.4 mm deep test well
CL909	Insert, 1/2 dia. x 4" deep test well
CL910	Insert, 1/2 dia. x 6" deep test well
CL911	Insert, undrilled

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