# hot point Dry Block Probe Calibrators



**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).

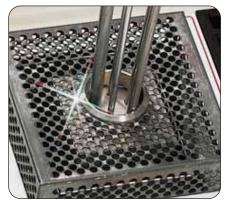
The CL900 calibrator accepts a variety of standard and metric optional inserts which are available in 4" and 6" depths and for probe diameters from ½ to ¾". An undrilled insert is also available. The CL900 comes complete with a ¼" diameter, 6" deep insert well and insert block tongs. Additional inserts 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, 1/6, 3/6, and two 1/8" diameter probes. The multiport 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™ extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE™ covers parts, labor and equivalent loaners.



CL950 multi-well accepts up to 5 probes at one time and comes standard with  $\%_6$ ,  $\%_6$ ,  $\%_6$  and two %'' 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:

CL900 with 6" Test ±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:

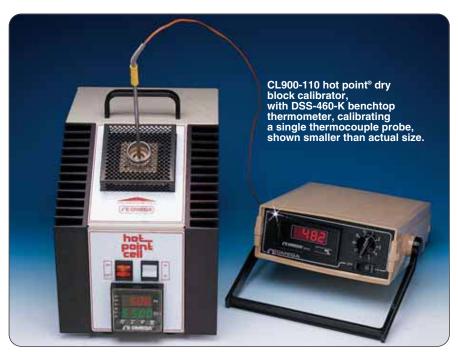
100 mm (4")

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)



#### MOST POPULAR MODELS HIGHLIGHTED!

| To Order (Specify Model Number) |  |  |
|---------------------------------|--|--|
| Model No.                       |  | Description                                |
| CL900-110                       |  | hot point® calibrator, 110 Vac             |
| CL900-220                       |  | hot point <sup>®</sup> 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 (¼") probes. OCW-3, OMEGACARE<sup>SM</sup> extends standard 1-year warranty to a total of 4 years.

#### **Inserts for CL900 Series**

| Inserts for CE300 Series |  |   |  |  |
|--------------------------|--|---|--|--|
| Model No.                |  | Description                                       |  |  |
| CL901                    |  | Insert, ¼ dia. x 4" deep test well                |  |  |
| CL901-M                  |  | Metric insert, 2 dia. x 101.6 mm deep test well   |  |  |
| CL902                    |  | Insert, ¼ dia. x 6" deep test well                |  |  |
| CL902-M                  |  | Metric insert, 2 dia. x 152.4 mm deep test well   |  |  |
| CL903                    |  | Insert, % dia. x 4" deep test well                |  |  |
| CL903-M                  |  | Metric insert, 3 dia. x 101.6 mm deep test well   |  |  |
| CL904                    |  | Insert, ¾ dia. x 6" deep test well                |  |  |
| CL904-M                  |  | Metric insert, 3 dia. x 152.4 mm deep test well   |  |  |
| CL905                    |  | Insert, ¼ dia. x 4" deep test well                |  |  |
| CL905-M                  |  | Metric insert, 4.5 dia. x 101.6 mm deep test well |  |  |
| CL906                    |  | Insert, ¼ dia. x 6" deep test well                |  |  |
| CL906-M                  |  | Metric insert, 4.5 dia. x 152.4 mm deep test well |  |  |
| CL907                    |  | Insert, 5/6 dia. x 4" deep test well              |  |  |
| CL907-M                  |  | Metric insert, 6 dia. x 101.6 mm deep test well   |  |  |
| CL908                    |  | Insert, 5/16 dia. x 6" deep test well             |  |  |
| CL908-M                  |  | Metric insert, 6 dia. x 152.4 mm deep test well   |  |  |
| CL909                    |  | Insert, % dia. x 4" deep test well                |  |  |
| CL910                    |  | Insert, % dia. x 6" deep test well                |  |  |
| CL911                    |  | Insert, undrilled                                 |  |  |

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