

# hot point® Dry Block Probe Calibrator

CL900A Calibrator, shown with HH-21A, handheld meter and handle thermocouple probe (both not included). Visit [newportUS.com](http://newportUS.com).



## CL900A/950A Series



- ✓ User Selectable °C or °F Display
- ✓ Calibrates Thermistors, Thermocouples and RTDs in Seconds
- ✓ Highly Accurate  $\pm 0.8^{\circ}\text{C}$  ( $\pm 1.5^{\circ}\text{F}$ ) and 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  $482^{\circ}\text{C}$  (Ambient 40 to  $900^{\circ}\text{F}$ ); Covers Most Industrial Applications

- ✓ CE Marked Models
- ✓ RS232 Standard
- ✓ Companion ice point™ Reference Cell Available Model TRCIII-A

NEWPORT's hot point® calibrator is part of a new family of calibrators which allows calibration of thermocouple and RTD probes quickly and easily with an accuracy to  $\pm 0.8^{\circ}\text{C}$  ( $\pm 1.5^{\circ}\text{F}$ ). 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 1 degree increments from ambient 22 to  $482^{\circ}\text{C}$  (ambient 40 to  $900^{\circ}\text{F}$ ).

The CL900A calibrator accepts a variety of optional inserts which are available in 101.6 mm (4") and 152 mm (6") depths, and probe diameters from  $\frac{1}{8}$ " to  $\frac{3}{8}$ ". An undrilled insert is also available. The CL900A comes complete with a 152 mm (6") deep insert well for  $\frac{1}{4}$ " diameter probes, and insert removal tongs.

Additional inserts can be ordered separately as required for other diameter probes. 152 mm (6") well depth inserts are used for probes 178 mm (7") and longer. 101.6 mm (4") well depth inserts are used for probes 127 mm (5") and longer.

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

† Refer to footnote on next page for NIST calibration ordering information.

## Specifications

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

**Temperature Range:** Ambient 22 to  $482^{\circ}\text{C}$  (Ambient 40 to  $900^{\circ}\text{F}$ )

**Operating Ambient Temperature Range:** 5 to  $38^{\circ}\text{C}$  (40 to  $100^{\circ}\text{F}$ )

**Accuracy:** ( $1^{\circ}$  resolution)

**CL900A with 152 mm (6") Test Well Inserts:**  $\pm 0.8^{\circ}\text{C}$  ( $\pm 1.5^{\circ}\text{F}$ )

**CL900A with 101.6 mm (4")**

**Test Well Inserts:**  $\pm 1.7^{\circ}\text{C}$  ( $\pm 3^{\circ}\text{F}$ )

**CL950A:**  $\pm 0.8^{\circ}\text{C}$  ( $\pm 1.5^{\circ}\text{F}$ )

**Control Stability:**  $\pm 0.15^{\circ}\text{C}$  ( $\pm 0.3^{\circ}\text{F}$ )

Temperature Uniformity (within the Bottom 25 mm/1" of the Test Well):

CL900A with 152 mm (6") Test Well

Inserts:  $\pm 0.3\%$  rdg

CL900A with 101.6 mm (4")

Test Well Inserts:  $\pm 0.4\%$  rdg

CL950A:  $\pm 0.3\%$  rdg

Max Probe Immersion:

CL900A with 152 mm (6") Test Well

Inserts: 152 mm (6")

CL900A with 101.6 mm (4") Test Well

Inserts: 101.6 mm (4")

CL950A: 152 mm (6")

Control: Microprocessor-based PID digital controller

Power: 115 Vac, 50/60 Hz,

230 Vac, 50/60 Hz, 1050 W

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

Weight: 11.4 kg (25 lb)



The CL950A British multi-well accepts up to 5 probes at one time and comes standard with  $\frac{1}{16}$ ,  $\frac{1}{8}$ ,  $\frac{3}{16}$  and two  $\frac{1}{4}$ " diameter holes. The CL950A-M metric multi-well accepts up to 5 probes at one time and comes standard with 2, 3, 4.5, and two 6 mm diameter holes.



CL900A accepts any insert listed in the table at right.

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



Use Your CL900A Standing Up or Tilted on a Bench.

CL900A shown with HH502 thermometer Visit [newportUS.com/hh500](http://newportUS.com/hh500). Probes also sold separately, visit [newportUS.com](http://newportUS.com)

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

### To Order Visit [newportUS.com/CL900A](http://newportUS.com/CL900A) for Pricing and Details

Model No.	Description
CL900A-110	Hot point probe calibrator, 115 Vac
CL900A-220*	Hot point probe calibrator, 230 Vac, CE
CL950A-110	Hot point multi-well Metric probe calibrator, 115 Vac
CL950A-220*	Hot point multi-well Metric probe calibrator, 230 Vac, CE
CL950A-M-110	Hot point metric multi-well probe calibrator, 115V
CL950A-M-220*	Hot point metric multi-well probe calibrator, 230V

Comes complete with CL906 test well, insert removal tongs and operator's manual. Inserts are for CL900 and CL900A hot point® calibrators only.

† To order NIST Calibration points, add suffix "-NIST" to model number for an additional cost.

\* Note: Only 230 Vac models are CE marked.

Ordering Examples: CL900A-110, hot point® calibrator, 110 Vac, and CL905 10.6 cm (4") test well insert for 6.3 cm ( $\frac{1}{4}$ ") probes. OCW-3

### Inserts for CL900A Series

Model No.	Description
CL901	Insert, $\frac{1}{8}$ diameter x 4" deep test well
CL901-M	Metric insert, 2 diameter x 101.6 mm deep test well
CL902	Insert, $\frac{1}{8}$ diameter x 6" deep test well
CL902-M	Metric insert, 2 diameter x 152.4 mm deep test well
CL903	Insert, $\frac{3}{16}$ diameter x 4" deep test well
CL903-M	Metric insert, 3 diameter x 101.6 mm deep test well
CL904	Insert, $\frac{3}{16}$ diameter x 6" deep test well
CL904-M	Metric insert, 3 diameter x 152.4 mm deep test well
CL905	Insert, $\frac{1}{4}$ diameter x 4" deep test well
CL905-M	Metric insert, 4.5 diameter x 101.6 mm deep test well
CL906	Insert, $\frac{1}{4}$ diameter x 6" deep test well
CL906-M	Metric insert, 4.5 diameter x 152.4 mm deep test well
CL907	Insert, $\frac{5}{16}$ diameter x 4" deep test well
CL907-M	Metric insert, 6 diameter x 101.6 mm deep test well
CL908	Insert, $\frac{5}{16}$ diameter x 6" deep test well
CL908-M	Metric insert, 6 diameter x 152.4 mm deep test well
CL909	Insert, $\frac{3}{8}$ diameter x 4" deep test well
CL910	Insert, $\frac{3}{8}$ diameter x 6" deep test well
CL911	Insert, undrilled