

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

NEWPORT's 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.

multiple thermocouple probes (see newportUS.com).

The CL950 calibrator features a built-in well with 5 ports sized to accommodate a $\frac{1}{16}$, $\frac{1}{16}$, $\frac{3}{16}$, and two $\frac{1}{16}$ " 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.



CL950 multi-well accepts up to 5 probes at one time and comes standard with %, %, % 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:

±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)



To Order Visit newportUS.com/cl900_950 for Pricing and Details	
Model No.	Description
CL900-110	hot point calibrator, 110 Vac
CL900-220	hot point calibrator, 220 Vac
CL950-110	Multi-well hot point 110V
CL950-220	Multi-well hot point 220V

Comes complete 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 for an additional cost. Ordering Examples: CL900-110, hot point calibrator, 110 Vac, and CL905, 10 cm (4") test well insert for 6.3 cm (½") probes.

OCW-3, OMEGACARESM extends standard 1-year warranty to a total of 4 years.

Inserts for CL900 Series

Inserts for CL900 Series	
Model No.	Description
CL901	Insert, 1/2 diameter x 4" deep test well
CL901-M	Metric insert, 2 diameter x 101.6 mm deep test well
CL902	Insert, 1/8 diameter x 6" deep test well
CL902-M	Metric insert, 2 diameter x 152.4 mm deep test well
CL903	Insert, 3/16 diameter x 4" deep test well
CL903-M	Metric insert, 3 diameter x 101.6 mm deep test well
CL904	Insert, 3/16 diameter x 6" deep test well
CL904-M	Metric insert, 3 diameter x 152.4 mm deep test well
CL905	Insert, ¼ diameter x 4" deep test well
CL905-M	Metric insert, 4.5 diameter x 101.6 mm deep test well
CL906	Insert, ¼ diameter x 6" deep test well
CL906-M	Metric insert, 4.5 diameter x 152.4 mm deep test well
CL907	Insert, 5/16 diameter x 4" deep test well
CL907-M	Metric insert, 6 diameter x 101.6 mm deep test well
CL908	Insert, 5/16 diameter x 6" deep test well
CL908-M	Metric insert, 6 diameter x 152.4 mm deep test well
CL909	Insert, % diameter x 4" deep test well
CL910	Insert, % diameter x 6" deep test well
CL911	Insert, undrilled