



Specifications	
Temperature Range	35°C to 400°C (95°F to 752°F)
Display Accuracy	±0.5°C to 200°C ±1.0°C to 400°C
Stability	±0.2°C to 300°C ±0.3°C to 400°C
Resolution	0.01°
Uniformity	±0.3°C at 100°C ±0.6°C at 200°C ±0.9°C at 300°C ±1.4°C at 400°C
Heating Time	25°C to 400°C: 22 minutes
Cooling Time	400°C to 100°C: 65 minutes
Stabilization Time	8 minutes
Controller	Hart Model 2200, microprocessor based, with RS-232 (see page 109)
Readout	°C or °F, switchable
Sensor	RTD, 100Ω
Heater	325-watt, solid-state controlled
Surface Plate	6061 aluminum; top surface machine finished to 0.00032" (0.0008 mm), 3.8" (96 mm) diameter accessible
Power	115 VAC (±10%), 2.8 A or 230 VAC (±10%), 1.4 A, specify, 50/60 Hz, 325 W
Weight	7 lb. (3.2 kg) with 2200 Controller
NIST-Traceable Calibration	Data at 50°C, 120°C, 190°C, 260°C, 330°C, and 400°C

Ordering Information

3125 Surface Calibrator, (includes detachable Hart Model 2200 Controller)



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Surface Calibrator

Model 3125

- Calibrates surface sensors up to 400°C
- Uses Hart 2200 Controller for excellent accuracy and stability
- NIST-traceable calibration included

Surface probes are difficult to calibrate because it's hard to find a flat, heated surface that's stable and uniform. Hart's new Model 3125 Surface Dry-Well takes advantage of our proprietary Model 2200 Temperature Controller (page 109) and gives you the best possible conditions for calibrating surface sensors.

Why buy a non-temperature calibration device designed for test tube sterilization or PC board repair when you can have a true calibration instrument? The 3125 has a uniform surface temperature and reaches temperatures as high as 400°C.

The test surface is milled aluminum for an absolutely smooth and true calibration work area with maximum thermal conductivity. The 12.25-square-inch test surface is large enough to calibrate more than one sensor at a time. The 3125 can be used with a reference surface sensor or PRT. PRTs (3/16" diameter, such as the 5613 on page 62) may be inserted through a drilled hole

into the center of the block for use as reference thermometers or for easy recalibration of the unit's display.

With an accuracy of ±0.5°C to 200°C and ±1°C to 400°C, you can calibrate almost any surface probe, thermistor, thin film sensor, RTD, thermocouple, ribbon sensor, or surface mount cutouts, fuses, and switches. Stability is within ±0.3°C at 400°C and uniformity within the center three inches of the surface is ±0.6°C at 200°C. Don't buy "make-do" hot plates when you can have a legitimate calibration tool.

Industrial