



# 3125 Surface Probe Calibrator

## Highlights

Calibrates surface sensors up to 400°C

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- Uses Fluke Calibration 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. The model 3125 Surface Dry-Well takes advantage of our proprietary 2200 Temperature Controller and gives you the best possible conditions for calibrating surface sensors.

## Description

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 5615) 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  $\pm 0.5$  °C to 200 °C and  $\pm 1$  °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  $\pm 0.3$  °C at 400 °C and uniformity within the center three inches of the surface is  $\pm 0.6$  °C at 200 °C. Don't buy "make-do" hot plates when you can have a legitimate calibration tool.

## Specifications

Specifications	
Temperature Range	35 °C to 400 °C (95 °F to 752 °F)
Display Accuracy	$\pm 0.5$ °C to 200 °C $\pm 1.0$ °C to 400 °C
Stability	$\pm 0.2$ °C to 300 °C $\pm 0.3$ °C to 400 °C
Resolution	0.01 °
Uniformity	$\pm 0.3$ °C at 100 °C $\pm 0.6$ °C at 200 °C $\pm 0.9$ °C at 300 °C $\pm 1.4$ °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	Fluke Calibration Model 2200, microprocessor based, with RS-232
Readout	°C or °F, switchable
Sensor	RTD, 100Ω
Heater	325-watt, solid-state controlled
	6061 aluminum; top surface machine finished to

Surface Plate	0.0008 mm (0.000032 in), 96 mm (3.8 in) diameter accessible
Power	115 VAC (±10 %), 2.8 A or 230 VAC (±10 %), 1.4 A, specify, 50/60 Hz, 325 W
Weight	3.2 kg (7 lb.) with 2200 Controller
NIST-Traceable Calibration	Data at 50 °C, 120 °C, 190 °C, 260 °C, 330 °C, and 400 °C

## Models and Accessories

### Model Name Description

3125	Surface Calibrator (includes detachable Model 2200 Controller)
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### Accessories common to all models:

#### Accessory Description

<u>HART DRYWELL CABLE</u>	An interface cable kit that includes a null modem to connect the Fluke 754 with Fluke Calibration dry-wells and Micro-Baths to automate and document the calibration of temperature sensors and transmitters in the field or at the bench.
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