

TECHNICAL DATA

# 9011 High-Accuracy Dual-Well Calibrator



## Key features

- Wide temperature range: from  $-30\text{ }^{\circ}\text{C}$  to  $670\text{ }^{\circ}\text{C}$ .
- Combines two popular units in one, with two independent temperature controllers for the hot and cold side.
- Stability to  $\pm 0.02\text{ }^{\circ}\text{C}$  for reliable measurements.
- Multi-hole inserts that allow for the calibration of up to eight probes simultaneously.

## Product overview: 9011 High-Accuracy Dual-Well Calibrator

The 9011 features two independently controlled temperature wells, which make calibrating RTDs and thermocouples faster than ever. While readings are being taken at one temperature, the other well can be ramping up or down to the next point. Checking the zero and span points of temperature transmitters is a breeze. The cold block can even be used as a zero-point reference for a thermocouple making measurements in the hot block.

The 9011 is a high-accuracy unit that is capable of laboratory as well as field calibrations. Stabilities to  $\pm 0.02\text{ }^{\circ}\text{C}$  are possible, and display accuracy is better than  $\pm 0.25\text{ }^{\circ}\text{C}$ . Using multi-hole interchangeable inserts, you can calibrate more probes at the same time. With a single RS-232 port for both wells, you can automate your calibration work and be even more efficient. Add on Fluke Calibration's 9938 MET/TEMP II software and totally automate your calibrations of RTDs, thermocouples, and thermistors.

Every dry-well we ship from the factory includes a full NIST-traceable calibration report with test data for each well at each point. There's no extra charge for the report or the test readings from your unit. We also include your choice of multi-hole inserts. If you don't find one that suits your applications, we'll provide a blank sleeve or have a custom one made.

## Specifications: 9011 High-Accuracy Dual-Well Calibrator

Specifications	Hot Block	Cold Block
<b>Range</b>	50 °C to 670 °C (122 °F to 1238 °F)	-30 °C to 140 °C (-22 °F to 284 °F)
<b>Accuracy</b>	± 0.2 °C at 50 °C ± 0.4 °C at 400 °C ± 0.65 °C at 600 °C	± 0.25 °C (insert wells) ± 0.65 °C (fixed wells)
<b>Stability</b>	± 0.02 °C at 100 °C ± 0.06 °C at 600 °C	± 0.02 °C at -30 °C ± 0.04 °C at 140 °C
<b>Uniformity</b>	± 0.2 °C (± 0.05 °C typical)	± 0.05 °C (insert wells) ± 0.25 °C (fixed wells)
<b>Well Depth</b>	152 mm (6 in)	124 mm (4.875 in)
<b>Heating Time to Max.</b>	30 minutes	15 minutes
<b>Cooling Times</b>	120 minutes from 660 °C to 100 °C	30 minutes from 140 °C to -30 °C
<b>Well Inserts</b>	1 interchangeable well accommodates multi-hole insert	1 interchangeable well accommodates multi-hole insert, plus four outer wells, 1/4", 3/16", 3/16", and 1/8"
<b>Computer Interface</b>	RS-232 interface	
<b>Power</b>	115 V ac (± 10 %), 8.8 A or 230 V ac (± 10 %), 4.4 A, switchable, 50/60 Hz, 1150 W	



<b>Size (HxWxD)</b>	292 x 394 x 267 mm (11.5 x 15.5 x 10.5 in)	
<b>Weight</b>	16.4 kg (36 lb)	
<b>NIST-Traceable Certificate (8 points)</b>	Data at 50 °C, 100 °C, 200 °C, 300 °C, 400 °C, 500 °C, 600 °C, and 660 °C	Data at -30 °C, 0 °C, 25 °C, 50 °C, 75 °C, 100 °C, 125 °C, and 140 °C

## Ordering information

**9011-X**

High-Accuracy Dual-Well Calibrator (specify X, X = A, B, C, or D included insert)

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**2125-C**

IEEE-488 Interface (RS-232 to IEEE-488 converter box)

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**Fluke Corporation**  
PO Box 9090, Everett, WA 98206 U.S.A.

**Fluke Australia**  
Unit 26, 7 Anella Ave  
Castle Hill, NSW 2154 Australia  
Phone: 61 2 8850-3333  
[www.fluke.com.au](http://www.fluke.com.au)

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