

9011 High-Accuracy Dual-Well Calibrator



Features

- Combined range from $-30\text{ }^{\circ}\text{C}$ to $670\text{ }^{\circ}\text{C}$, one unit – two blocks
- Two independent temperature controllers (hot and cold side)
- Stability to $\pm 0.02\text{ }^{\circ}\text{C}$
- Multi-hole wells for calibrating up to eight probes simultaneously

To give you the widest temperature range available in a dry-well calibrator, we've combined two of our most popular units. The 9011 allows temperature probes to be calibrated from $-30\text{ }^{\circ}\text{C}$ to $670\text{ }^{\circ}\text{C}$ in a single unit.

The 9011 features two independently controlled temperature wells, which makes 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 Hart'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.

At Hart, we continually develop new industrial calibration tools that make your work easier and better. We gave you the first handheld dry-well, the first Micro-Bath, and now we're giving you the widest ranging dry-well available. Whatever your temperature application, Hart has a solution.



아이에스테크 :: INTERNAL STANDARD TECHNOLOGY ::

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Specifications	Hot Block	Cold Block
Range	50 °C to 670 °C (122 °F to 1238 °F)	-30 °C to 140 °C (-22 °F to 284 °F)
Accuracy	±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)
Stability	±0.02 °C at 100 °C ±0.06 °C at 600 °C	±0.02 °C at -30 °C ±0.04 °C at 140 °C
Uniformity	±0.2 °C (±0.05 °C typical)	±0.05 °C (insert wells) ±0.25 °C (fixed wells)
Well Depth	152 mm (6 in)	124 mm (4.875 in)
Heating Time to Max.	30 minutes	15 minutes
Cooling Times	120 minutes from 660 °C to 100 °C	30 minutes from 140 °C to -30 °C
Well Inserts	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"
Computer Interface	RS-232 interface included with Model 9930 Interface- <i>it</i> control software	
Power	115 VAC (±10 %), 10 A or 230 VAC (±10 %), 5 A, switchable, 50/60 Hz, 1150 W	
Size (HxWxD)	292 x 394 x 267 mm (11.5 x 15.5 x 10.5 in)	
Weight	16.4 kg (36 lb.)	
NIST-Traceable Certificate (8 points)	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)
- 3109-0** Insert, Blank (Hot Side)
- 3109-1** Insert A, Miscellaneous (Hot Side)
- 3109-2** Insert B, Comparison (Hot Side)
- 3109-3** Insert C, Eight 1/4 in Wells (Hot Side)
- 3109-4** Insert D, Comparison - Metric (Hot Side)
- 3103-1** Insert, Blank (Cold Side)
- 3103-2** Insert A, Miscellaneous (Cold Side)
- 3103-3** Insert B, Comparison (Cold Side)
- 3103-4** Insert C, Six 1/4 in Wells (Cold Side)
- 3103-6** Insert D, Comparison - Metric (Cold Side)
- 2125-C** IEEE-488 Interface (RS-232 to IEEE-488 converter box)
- 9319** Large Instrument Case



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