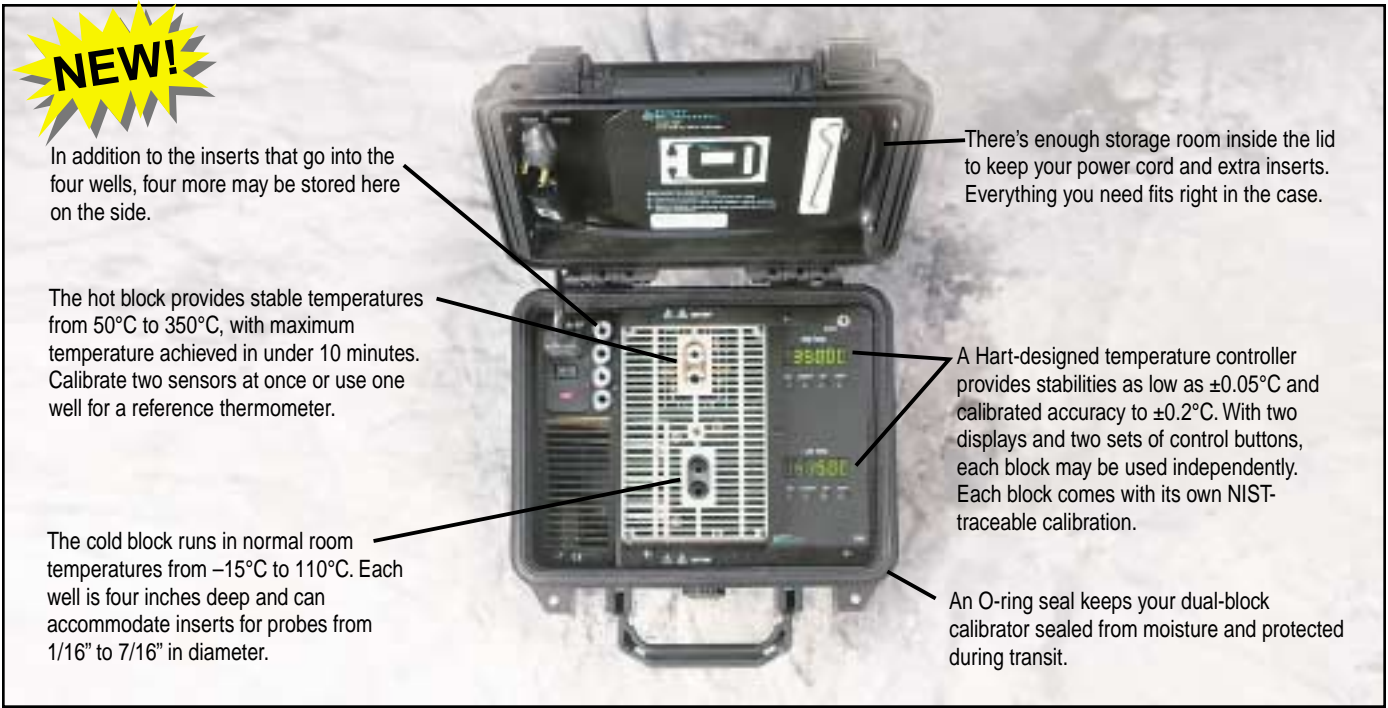


INDUSTRIAL DUAL-BLOCK CALIBRATOR



NEW!

In addition to the inserts that go into the four wells, four more may be stored here on the side.

The hot block provides stable temperatures from 50°C to 350°C, with maximum temperature achieved in under 10 minutes. Calibrate two sensors at once or use one well for a reference thermometer.

The cold block runs in normal room temperatures from -15°C to 110°C. Each well is four inches deep and can accommodate inserts for probes from 1/16" to 7/16" in diameter.

There's enough storage room inside the lid to keep your power cord and extra inserts. Everything you need fits right in the case.

A Hart-designed temperature controller provides stabilities as low as ±0.05°C and calibrated accuracy to ±0.2°C. With two displays and two sets of control buttons, each block may be used independently. Each block comes with its own NIST-traceable calibration.

An O-ring seal keeps your dual-block calibrator sealed from moisture and protected during transit.

Industrial Dual-Block Calibrator	Model 9009
Temperatures from -15°C to 350°C in one unit	
Two wells in each block for simultaneous comparison calibrations	
Rugged, lightweight, watertight enclosure	

You've been asking for it and now we're making it for you. Hart's new Model 9009 Industrial Dual-Block Calibrator lets you calibrate at hot and cold temperatures at the same time. Double your productivity or cut your calibration time in half—either way you look at it, your in-field temperature calibrations just got easier.

The Model 9009 includes two independently controlled temperature blocks. The hot block provides temperatures from 50°C to 350°C, while the cold block covers the range -15°C to 110°C. Each block is controlled by a precision Hart Scientific temperature controller. These aren't some off-the-shelf controllers we glued into a box. These are Hart Scientific controllers from the leading temperature company in the world.

Each temperature block includes two wells with removable inserts. You can calibrate four probes at once, or you can

calibrate two probes at the same time with an external reference (like Hart's Model 1521 LLK Thermometer on page 42), or you can use the two temperature wells to get quick "zero" and "span" references for transmitter calibrations.

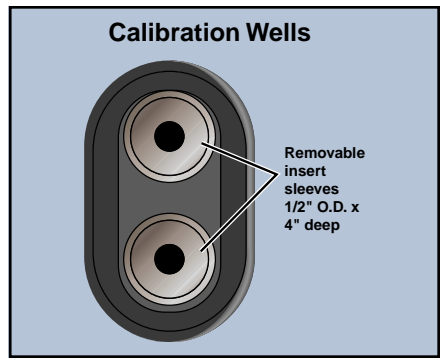
Need portability and durability? The 9009 is housed in a tough Pelican™ case that is both airtight and watertight. It's a small package weighing only 10 pounds, yet it fits everything you need, including a power cord and four extra inserts. Inserts are available to accommodate sensors of any size from 1/16" (1.6 mm) to 7/16" (11.1 mm). This rugged system can go anywhere.

Of course the 9009 also delivers the performance you expect from a Hart Scientific temperature source. The cold block is calibrated to within ±0.2°C with stability of ±0.05°C. The hot block's display is accurate to ±0.6°C with stability of

±0.05°C. A NIST-traceable calibration is included for each of the two test blocks.

For use with automated systems, the 9009 comes with an RS-232 connection and our Model 9930 Interface-*it* software, which allows you to control and monitor temperatures from your PC. For completely automated calibrations, Hart's Calibrate-*it* software (page 80) also integrates with the 9009.

Two blocks in one unit, a total range of -15°C to 350°C, portability, durability, versatility, performance, automation. Hart Scientific delivers it all.



Each block contains two wells, which accept removable inserts. A 1/4" and a 3/16" insert are included for each block. Additional sizes (including custom sizes) are available.

Industrial

Specifications	Hot Block	Cold Block
Range	50°C to 350°C (122°F to 662°F)	-15°C to 110°C (5°F to 230°F) (-8°C [18°F] with hot block at 350°C [662°F])
Accuracy	±0.6°C	±0.2°C
Stability	±0.05°C	
Well-to-Well Uniformity	±0.1°C	
Display Resolution	0.1°	
Heating Times	10 minutes from 25°C to 350°C	15 minutes from 25°C to 110°C
Cooling Times	30 minutes from 350°C to 100°C	16 minutes from 25°C to -15°C
Stabilization Times	8 minutes	
Well Depth	4" (102 mm)	
Removable Inserts	Two 1/4" (6.4 mm) and 3/16" (4.8 mm) inserts included; see Ordering Information for other available inserts	
Computer Interface	RS-232 included with free Interface- <i>it</i> software	
Power	115 VAC (±10%), 3 A, or 230 VAC (±10%), 2 A, specify, 50/60 Hz, 250 W	
Size	7" H x 10.5" W x 9.75" D (178 x 267 x 248 mm)	
Weight	10 lb. (4.5 kg)	
NIST-Traceable Calibration	Data at 50°C, 100°C, 150°C, 200°C, 250°C, 300°C, and 350°C	Data at -8°C, 0°C, 25°C, 50°C, 75°C, 100°C, and 110°C

Ordering Information

- 9009-X Industrial Dual-Block Dry-Well (X = case color. Specify "B" for black or "Y" for yellow.)
- 3102-0 Insert, Blank
- 3102-1 Insert, 1/16" (1.6 mm)
- 3102-2 Insert, 1/8" (3.2 mm)
- 3102-3 Insert, 3/16" (4.8 mm)
- 3102-4 Insert, 1/4" (6.4 mm)
- 3102-5 Insert, 5/16" (7.9 mm)
- 3102-6 Insert, 3/8" (9.5 mm)
- 3102-7 Insert, 7/16" (11.1 mm)
- 3102-8 Insert, 5/32" (4 mm)



The 9009 is built into a small, lightweight, rugged enclosure that holds everything you need and comes in black or yellow.

Technical Tip

Increase Dry-Well Performance with a Reference Thermometer

To increase the performance of a block calibrator and the accuracy level of your calibrations, add a reference thermometer to your system. The Tweener Thermometers and Handheld Thermometers on pages 39–45 can bring your NIST-traceable uncertainty from ±0.5°C to ±0.05°C.

Using a comparison technique, users insert both the test and reference probe into the same block at the same time, which yields a much better calibration. Both probes, if inserted at the same depth with similar size and diam-

eters, will be sensing more of the same temperature than a single probe inserted and compared to the sensor that feeds the display.

Tweener and Handheld Thermometers are used with a high-accuracy reference PRT or thermistor calibrated to the ITS-90 scale and included with a certificate and calibration coefficients.

We designed our field calibrators with removable insert sleeves that have multiple holes drilled for use with a reference thermometer system.

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