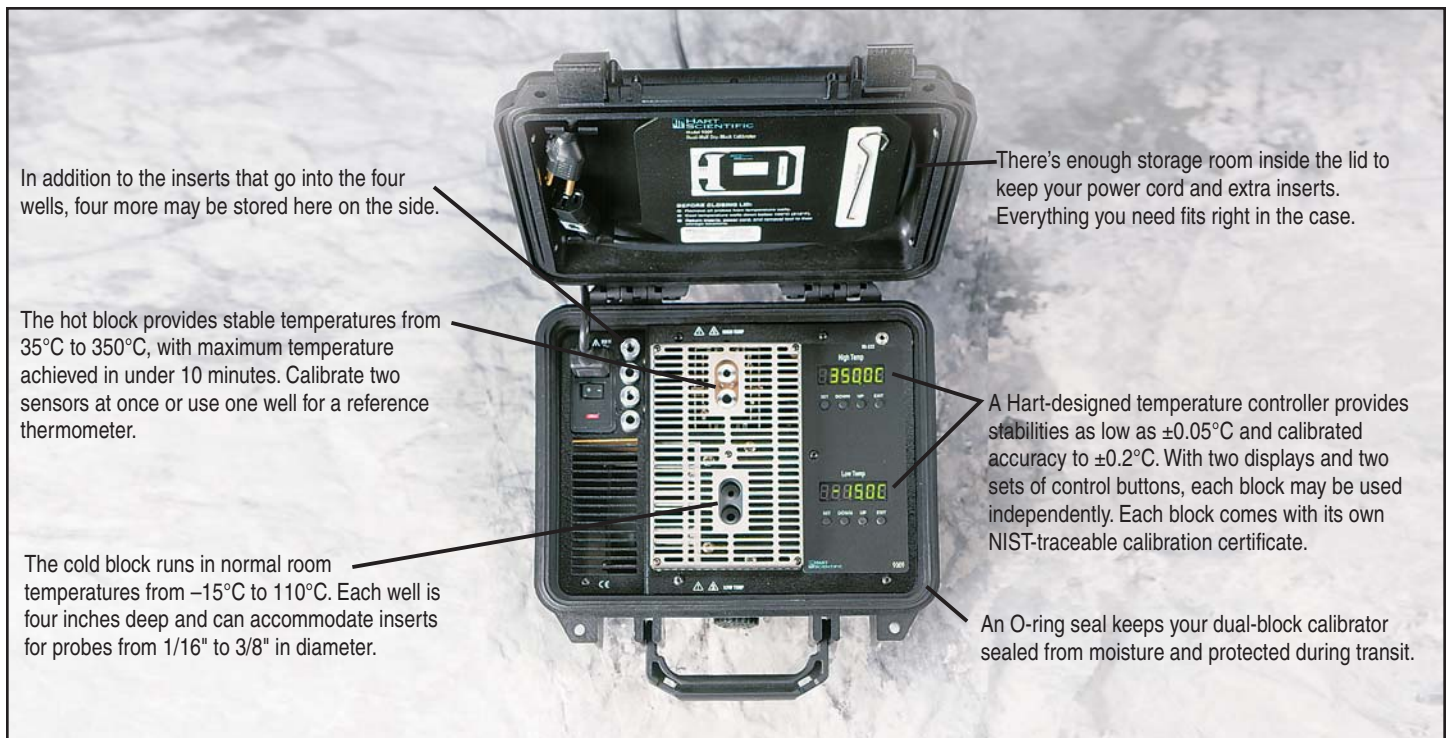# INDUSTRIAL DUAL-BLOCK CALIBRATOR

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 35°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 3/8" 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 certificate.

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

Feature Summary

- Temperatures from –15°C to 350°C in one unit
- Two wells in each block for simultaneous comparison calibrations
- Rugged, lightweight, water-resistant enclosure
- Controlled by precision Hart Scientific temperature controller

You've been asking for it and now we're delivering it. Hart's new Model 9009 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 35°C to 350°C, while the cold block covers the range –15°C to 110°C. Both blocks are controlled by a precision Hart Scientific temperature controller. This isn't some off-the-shelf controller we glued into a box. This is a Hart Scientific

controller from the leading temperature metrology company in the world.

Each temperature block includes two wells that hold removable inserts. You can calibrate four probes at once, you can calibrate two probes at once using an external reference, or you can use the two temperature wells to get quick "zero" and "span" temperatures for transmitter calibrations. However you calibrate, the 9009 is versatile enough to match it.

Need portability and durability? This calibrator has them both. The 9009 is housed in a tough Pelican™ case that is water resistant. It's a small package weighing only 10 pounds (4.5 kg), yet it holds 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 certificate of calibration is included for each of the two 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.

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

Specifications	Hot Block	Cold Block
Range	35°C to 350°C (95°F to 662°F)	−15°C to 110°C (5°F to 230°F) in 23°C ambient (−8°C with hot block at 350°C)
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 inches (101.6 mm)	
Removable Inserts	Two 1/4" (6.4 mm) and two 3/16" (4.8 mm) inserts included; see Ordering Information for other available inserts	
Power	115 VAC (±10%), 50/60 Hz; 230 VAC (±10%), 50/60 Hz; specify	
Size	7" H x 10.5" W x 9.75" D (178 x 267 x 248 mm)	
Weight	10 lb. (4.5 kg)	
Certification	Includes 7-point, NIST-traceable certificate of calibration with data at the following points: 50°C, 100°C, 150°C, 200°C, 250°C, 300°C, and 350°C	Includes 7-point, NIST-traceable certificate of calibration with data at the following points: −10°C, 0°C, 25°C, 50°C, 55°C, 100°C, and 122°C

Ordering Information

HT9009-B-156 Dry-Well, 110V 50/60Hz Industrial Dual-Block

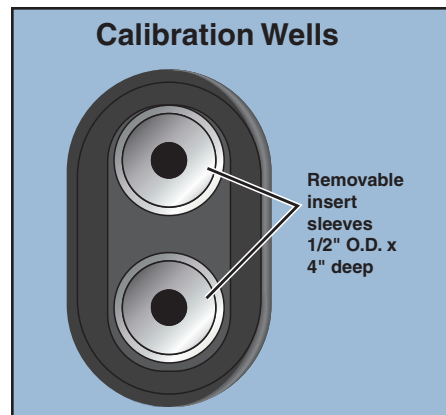**HT9009-B-256** Dry-Well, 220V 50/60Hz Industrial Dual-Block

HT3102-1 Insert, AL 1/16" (1.6 mm)

HT3102-2 Insert, AL 1/8"" (3.2 mm)

HT3102-3 Insert, AL 3/16" (4.8 mm)

HT3102-4 Insert, AL 1/4" (6.4 mm)

HT3102-6 Insert, AL 3/8" (9.5 mm)

Calibration Wells

Removable insert sleeves 1/2" O.D. x 4" deep

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

The HT9009 is built into a small, lightweight, rugged enclosure that fits everything you need into one package.