

## TECHNICAL DATA

# Fluke Calibration 9009 Dual-Well Dry-Well



## Key features

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), 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  $\pm 0.2$  °C with stability of  $\pm 0.05$  °C. The hot block's display is accurate to  $\pm 0.6$  °C with stability of  $\pm 0.05$  °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, which allows you to control and monitor temperatures from your PC. For completely automated calibrations, Hart's MET/TEMP II software 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.

## Product overview: Fluke Calibration 9009 Dual-Well Dry-Well

### Double your productivity or cut your calibration time in half

- Temperatures from  $-15^{\circ}\text{C}$  to  $350^{\circ}\text{C}$  in one unit
- Two wells in each block for simultaneous comparison calibrations
- Rugged, lightweight, water-resistant 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.

## Specifications: Fluke Calibration 9009 Dual-Well Dry-Well

General Specifications		
	Hot block	Cold block
Range	$50^{\circ}\text{C}$ to $350^{\circ}\text{C}$ ( $122^{\circ}\text{F}$ to $662^{\circ}\text{F}$ )	$-15^{\circ}\text{C}$ to $110^{\circ}\text{C}$ ( $5^{\circ}\text{F}$ to $230^{\circ}\text{F}$ ) ( $-8^{\circ}\text{C}$ [ $18^{\circ}\text{F}$ ] with hot block at $350^{\circ}\text{C}$ [ $662^{\circ}\text{F}$ ])
Accuracy	$\pm 0.6^{\circ}\text{C}$	$\pm 0.2^{\circ}\text{C}$
Stability	$\pm 0.05^{\circ}\text{C}$	
Well-to-well uniformity	$\pm 0.1^{\circ}\text{C}$	
Display resolution	$0.1^{\circ}$	
Heating times	30 minutes from $25^{\circ}\text{C}$ to $350^{\circ}\text{C}$	15 minutes from $25^{\circ}\text{C}$ to $110^{\circ}\text{C}$
Cooling times	40 minutes from $350^{\circ}\text{C}$ to $100^{\circ}\text{C}$	16 minutes from $25^{\circ}\text{C}$ to $-15^{\circ}\text{C}$
Stabilization times	8 minutes	
Well depth	4 in (102 mm)	
Removable inserts	Two 6.4 mm (1/4 in) and two 4.8 mm (3/16 in) inserts included; see ordering information for other available inserts	
Computer interface	RS-232 included	
Power	115 V AC ( $\pm 10\%$ ), 3 A, or 230 V AC ( $\pm 10\%$ ), 2 A, specify, 50/60 Hz, 280 W	
Size (H x W x D)	178 x 267 x 248 mm (7 x 10.5 x 9.75 in)	
Weight	4.5 kg (10 lb)	
NIST-traceable calibration	Data at $50^{\circ}\text{C}$ , $100^{\circ}\text{C}$ , $150^{\circ}\text{C}$ , $200^{\circ}\text{C}$ , $250^{\circ}\text{C}$ , $300^{\circ}\text{C}$ , and $350^{\circ}\text{C}$	Data at $-8^{\circ}\text{C}$ , $0^{\circ}\text{C}$ , $25^{\circ}\text{C}$ , $50^{\circ}\text{C}$ , $75^{\circ}\text{C}$ , $100^{\circ}\text{C}$ , and $110^{\circ}\text{C}$

## Ordering information



### **Fluke 9009-B-156**

Fluke Calibration 9009 Dual-Well Dry-Well, Dual Block (Black), 110V 50/60HZ

