

# HANDHELD INFRARED CALIBRATOR

## Model 9131



### Specifications

Temperature Range	35°C to 400°C (95°F to 752°F)
Accuracy	±1°C to 100°C ±2°C to 250°C ±3°C to 400°C
Resolution	0.1°
Stability	±0.25°C at 200°C ±0.35°C at 300°C ±0.45°C at 400°C
Heating Time	15 minutes to max.
Cooling Time	25 minutes from 400°C to 100°C
Stabilization	3 minutes
Target Emmissivity	0.95
Aperture Diameter	1" (25 mm)
Power	115 VAC (±10%), 2 A or 230 VAC (±10%), 1 A, specify, 50/60 Hz, 230 W
Size	2.25" x 4.9" x 5.9" (57 x 125 x 150 mm)
Weight	2 lb. 3 oz. (1 kg)
NIST-Traceable Calibration	Data at 50°C, 120°C, 190°C, 260°C, 330°C, 400°C

### Handheld Infrared Calibrator

### Model 9131

Handheld design for field calibrations anywhere

Range to 400°C (752°F)

NIST-traceable calibrator included

Unbeatable accuracy/price value

Calibrate your IR sensors to 400°C with Hart's handheld infrared calibrator. It's part of Hart's line of small, light-weight, portable field calibrators designed to work the way you need them to at an absolute industry-leading price.

The Hart 9131 is small enough to hold in your hand while you point your IR sensor at its one-inch blackbody target. Simply plug it in, set the desired temperature, and point your infrared pyrometer at the target. It's that easy.

The specially machined concentric rings in the calibration target, or "blackbody," reduce surface reflectance and ensure a true temperature reading. A high-emissivity coating is baked on the target to give accurate calibration of your IR thermometer.

Most IR thermometers with fixed emissivity are set to match the 0.95 emissivity of our block. Meters with ad-

justable emissivity should be set to 0.95 when checking their accuracy.

A high-grade platinum RTD sensor is embedded in the target block. The digital controller and the platinum sensor are system calibrated at Hart to ensure NIST-traceable accuracy in your calibrator. A thermometer reference well is drilled into the target block for an optional standards thermometer if increased accuracy is needed. The hole is placed just beneath the target surface and will fit a 1/8-inch-diameter sensor at a depth of 0.9 inches.

Compare the specs of the 9131 to any other IR calibrator on the market and you'll see why it's the perfect combination of performance and value.

Why not buy your blackbody calibrators from a company that manufactures a complete line of dry-wells that meet the demanding specs required by cal labs.

### Ordering Information

9131	HDRC IR Calibrator
9300	Rugged Carrying Case
5658	RTD, 0°C to 400°C, 2" x 0.125", includes Model 1922-8 Calibration



Watch for the release of Hart's newest IR calibrator. Coming in 2001, the Model 9132 covers temperatures to 500°C with a large, 2 1/4-inch blackbody target.



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