

# Fluke Calibration 9100S Handheld Dry-Well



## Key features

- Temperature ranges from  $-10^{\circ}\text{C}$  to  $375^{\circ}\text{C}$ .
- Accuracy to  $\pm 0.25^{\circ}\text{C}$ , with stability of  $\pm 0.05^{\circ}\text{C}$  at  $0^{\circ}\text{C}$ .
- Equipped with an RS-232 interface for connectivity.

## Product overview: Fluke Calibration 9100S Handheld Dry-Well

### Compact. Powerful. Field-Ready.

9100S Dry-Well — The Original Handheld Calibrator

The Fluke 9100S was the world's first truly handheld dry-well, and it continues to set the standard for **portable temperature calibration**. Many have attempted to replicate its compact size and performance—but none have succeeded.

- **Ultra-compact:** Only 2¼ inches high and 5 inches wide
- **Lightweight and durable:** Built for demanding field environments
- **Outperforms every dry-well in its class worldwide**

Fast, Easy, and Accurate

Designed with simplicity in mind, the 9100S is **easy to operate**—most users are up and running in less than 15

minutes.

- **Temperature Range:** Up to 375 °C (707 °F)
- Ideal for **checking RTDs, thermocouples, and small bimetal thermometers**
- **Front-panel buttons** allow easy temperature setting
- Compare readings using the **built-in display** or an **external reference thermometer**

### Performance Specifications

- **Display Resolution:** 0.1 °C
- **Accuracy:** ±0.5 °C
- **Stability:** ±0.1 °C
- **Stabilization Time:** Just 5 minutes

**Powered by a proprietary Fluke Calibration temperature controller, the 9100S delivers reliable, stable performance in a truly portable package.**

## Specifications: Fluke Calibration 9100S Handheld Dry-Well

Specifications	9100S	9102S
Range	35°C to 375°C (95°F to 707°F)	-10°C to 122°C (14°F to 252°F) at 23°C ambient
Accuracy	±0.25°C at 50°C; ±0.25°C at 100°C; ±0.5°C at 375°C	±0.25°C
Stability	±0.07°C at 50°C; ±0.1°C at 100°C; ±0.3°C at 375°C	±0.05°C
Well-to-well uniformity	±0.2°C with sensors of similar size at equal depths within wells	
Heating times	35°C to 375°C: 9.5 minutes	Ambient to 100°C: 10 minutes
Stabilization	5 minutes	7 minutes
Cooling times	375°C to 100°C: 14 minutes	Ambient to 0°C: 10 minutes
Well depth	102 mm (4 in); 1.6 mm (1/16 in) hole is 89 mm (3.5 in) deep	102 mm (4 in)
Removable inserts	N/A	Available in sizes from 1.6 mm (1/16 in) to 11.1 mm (7/16 in) [6.4 mm (1/4 in) and 4.8 mm (3/16 in) included]
Power	115 V AC (±10%), 55–65 Hz, 1.5 A or 230 V AC (±10%), 0.8 A, 45–55 Hz, 175 W	94-234 V AC (±10%), 50/60 Hz, 60 W; or 12 V DC
Size (H x W x D)	57 x 125 x 150 mm (2.25 x 4.9 x 6.1 in)	99 x 140 x 175 mm (3.9 x 5.5 x 6.9 in)
Weight	1 kg (2 lb 3 oz)	1.8 kg (4 lb)
Computer interface	RS-232 included	
NIST-traceable calibration	Data at 50°C, 100°C, 150°C, 200°C, 250°C, 300°C and 375°C	Data at -10°C, 0°C, 25 °C, 50°C, 75 °C, 100°C and 122°C

## Ordering information



### 9100S-A

Fluke Calibration 9100S-A Handheld Dry-Well  
HDRC Handheld Dry-Well A

**For 9100S with other inserts below, please visit request a quote.**

Part#: 1885080  
UPC#: 095969017831

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### 9100S-B

Fluke Calibration 9100S-B Handheld Dry-Well  
HDRC Handheld Dry-Well B

Part#: 1885116  
UPC#: 095969205603

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### 9100S-C

Fluke Calibration 9100S-C Handheld Dry-Well  
HDRC Handheld Dry-Well C

Part#: 1885133  
UPC#: 095969017879

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### 9100S-D

Fluke Calibration 9100S-D Handheld Dry-Well  
HDRC Handheld Dry-Well D

Part#: 1885157

UPC#: 095969017893

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