

TECHNICAL DATA

Fluke Calibration 9100S Handheld Dry-Well



Key features

- Temperature ranges from -10°C to 375°C .
- Accuracy to $\pm 0.25^{\circ}\text{C}$, with stability of $\pm 0.05^{\circ}\text{C}$ at 0°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 ($\pm 10\%$), 55–65 Hz, 1.5 A or 230 V AC ($\pm 10\%$), 0.8 A, 45–55 Hz, 175 W	94–234 V AC ($\pm 10\%$), 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

9100S-B

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

Part#: 1885116
UPC#: 095969205603

9100S-C

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

Part#: 1885133
UPC#: 095969017879

9100S-D

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

Part#: 1885157

UPC#: 095969017893

Fluke. *Keeping your world up and running.®*

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