

TECHNICAL DATA

# Fluke Calibration 9100S Handheld Dry-Well



## Key features

World's smallest, lightest and most portable dry-wells

- Smallest dry-wells in the world
- Ranges from 35 °C to 375 °C
- Accuracy to  $\pm 0.25$  °C, stability of  $\pm 0.25$  °C at 50 °C
- RS-232 interface

Fluke Calibration's line of portable dry-wells is incredible. They're the smallest, lightest, and most portable dry-wells in the world. And now they're better than ever!

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

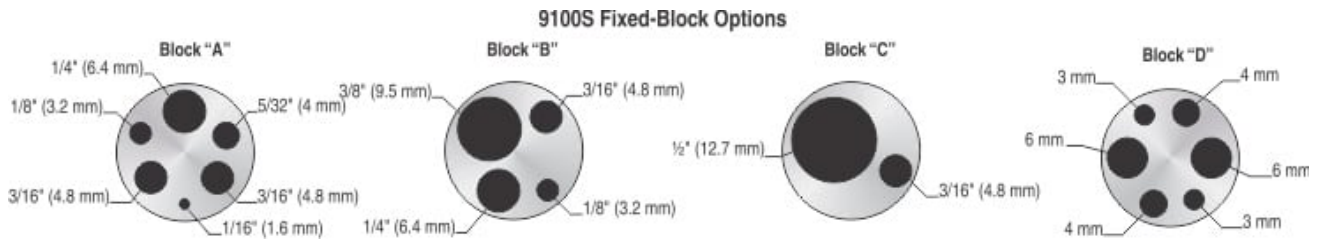
### 9100S Dry-Well

Since we introduced the world's first truly handheld dry-well, many have tried to duplicate it—in vain. Despite its small size (2¼ inches high and 5 inches wide) and light weight, the 9100S outperforms every dry-well in its class in the world.

It's simple and convenient, too. Anyone can learn to use one in less than 15 minutes. It has a range to 375 °C (707 °F) and is perfect for checking RTDs, thermocouples, and small bimetal thermometers in the field.

Plug it in, switch it on, set the temperature with the front-panel buttons, and insert your probe into the properly sized well.

Compare the reading of your device to the display temperature or to an external reference, and the difference is the error in your device. With a proprietary Fluke Calibration temperature controller, the 9100S has a display resolution of 0.1 degrees, an accuracy of  $\pm 0.5\text{ }^{\circ}\text{C}$ , a stability of  $\pm 0.1\text{ }^{\circ}\text{C}$ , and a stabilization time of just five minutes.



## 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	$\pm 0.25\text{ }^{\circ}\text{C}$ at 50°C; $\pm 0.25\text{ }^{\circ}\text{C}$ at 100°C; $\pm 0.5\text{ }^{\circ}\text{C}$ at 375°C	$\pm 0.25\text{ }^{\circ}\text{C}$
Stability	$\pm 0.07\text{ }^{\circ}\text{C}$ at 50°C; $\pm 0.1\text{ }^{\circ}\text{C}$ at 100°C; $\pm 0.3\text{ }^{\circ}\text{C}$ at 375°C	$\pm 0.05\text{ }^{\circ}\text{C}$
Well-to-well uniformity	$\pm 0.2\text{ }^{\circ}\text{C}$ 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



### **Fluke 9100S-A**

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

**For 9100S with other inserts below, please visit: [us.flukecal.com](https://us.flukecal.com) and request a quote.**

---

### **Fluke 9100S-B**

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

---

### **Fluke 9100S-C**

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

---

### **Fluke 9100S-D**

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

---



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

**Fluke Corporation**  
PO Box 9090, Everett, WA 98206 U.S.A.

**For more information call:**  
In the U.S.A. (800) 443-5853  
In Canada (800) 36-FLUKE  
From other countries +1 (425) 446-5500  
[www.fluke.com](http://www.fluke.com)

©2024 Fluke Corporation.  
Specifications subject to change without notice.  
05/2024

**Modification of this document is not permitted  
without written permission from Fluke Corporation.**