

TECHNICAL DATA

Fluke Calibration 9102S 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 9102S Handheld Dry-Well

9102S Dry-Well

For work in the temperature range of -10°C to 122°C , 9102S dry-well is another first in the industry, featuring stability to $\pm 0.05^{\circ}\text{C}$.

This dry-well is only four inches high and six inches wide, achieves temperatures as low as -10°C , includes a NIST-traceable calibration, and is stable to $\pm 0.05^{\circ}\text{C}$. The Model 9102S is excellent for dial gauges, digital thermometers, bulb switches, and other sensors that need calibration below ambient.

The 9102S has two wells so you can use one for a reference thermometer to increase accuracy. Both wells are 1/2 inch in diameter, and each has inserts available for almost any sensor size. The 9102S also has a battery pack option that gives you approximately four hours of field use when AC power is unavailable.

Specifications: Fluke Calibration 9102S 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



Fluke 9102S-156

9102S-156, DRY-WELL, HH LOW-TEMP

9102S

HDRC Handheld Dry-Well



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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

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