

HANDHELD DRY-WELLS

Models 9100S and 9102S



to the display temperature or to an external reference, and the difference is the error in your device. With a proprietary Hart Scientific temperature controller, the 9100S has a display resolution of 0.1 degrees. Display accuracy ranges from $\pm 0.25^{\circ}\text{C}$ to $\pm 0.5^{\circ}\text{C}$ and stability ranges from $\pm 0.07^{\circ}\text{C}$ to $\pm 0.3^{\circ}\text{C}$, depending on set-point temperature.

Model 9102S Dry-Well

For work in the temperature range of -10°C to 122°C , Hart's Model 9102S dry-well is another first in the industry, featuring display accuracy of $\pm 0.25^{\circ}\text{C}$.

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 (12.7 mm) 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.

Features Summary

- Smallest dry-wells in the world
- Ranges from -10°C to 375°C
- Accuracy to $\pm 0.25^{\circ}\text{C}$, stability of $\pm 0.05^{\circ}\text{C}$ at 0°C
- RS-232 interface with Hart Interface-*it* software – **NEW!**

Hart'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!

Model 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 (2 1/4 inches high and 5 inches wide) and light weight, the 9100S outperforms every dry-well in its class in the world.

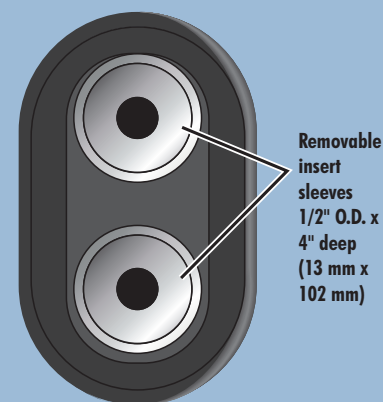
It's simple and convenient, too. Anyone can learn to use one in less than 15 minutes. It has a range to 375°C (707°F) and is perfect for checking RTDs, thermocouples, and small bimetal thermometers in the field.

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



Take the 9100S anywhere. It's the smallest dry-well in the world.

9102S Calibration Wells

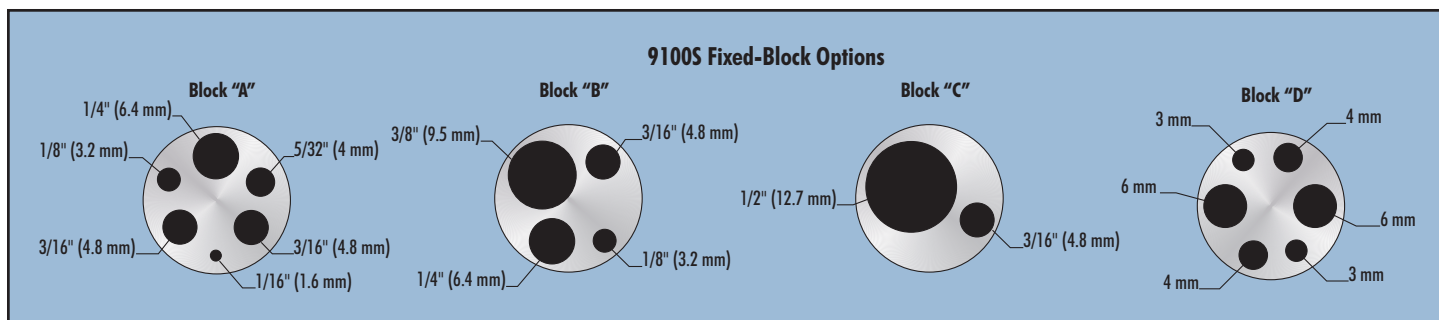


9102S block configuration. Instrument includes 1/4" and 3/16" inserts. Order additional sizes as needed.

HANDHELD DRY-WELLS

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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° 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	4 inches (102 mm); 1/16" (1.6 mm) hole is 3.5" (89 mm) deep	4 inches (102 mm)
Removable Inserts	N/A	Available in sizes from 1/16" (1.6 mm) to 7/16" (11.1 mm) [1/4" (6.4 mm) and 3/16" (4.8 mm) included]
Computer Interface	RS-232 included with free Interface- <i>it</i> software	
Power	115 VAC (±10%), 1.5 A or 230 VAC (±10%), 0.8 A, specify, 50/60 Hz, 175 W	94-234 VAC (±10%), 50/60 Hz, 60 W; or 12 VDC
Size	2.25" H x 4.9" W x 5.9" D (57 x 125 x 150 mm)	3.9" H x 5.5" W x 6.9" D (99 x 140 x 175 mm)
Weight	2 lb. 3 oz. (1 kg)	4 lb. (1.8 kg)
NIST-Traceable Calibration	Data at 50°C, 100°C, 150°C, 200°C, 250°C, 300°C, and 350°C	Data at −10°C, 25°C, 50°C, 55°C, 100°C, and 122°C



9100S fixed-block options. Order number 9100S-A, 9100S-B, 9100S-C or 9100S-D for the desired block option.



Model 9102S shown with battery pack, which includes a battery, carrying bag, cables, and charger.

Ordering Information

- 9100S-A Dry-Well, Handheld Block A
- 9100S-B Dry-Well, Handheld Block B
- 9100S-C Dry-Well, Handheld Block C
- 9100S-D Dry-Well, Handheld Block D
- 9300 Case, 9100 Rugged Carrying

Ordering Information

- 9102S Dry-Well, 110 V, 50/60 Hz, −10°C to 122°C (2 Wells)
- 3102-0 Insert, AL blank
- 3102-1 Insert, AL 1/16" (1.6 mm)
- 3102-2 Insert, AL 1/8" (3.2 mm)
- 3102-3 Insert, AL 3/16" (4.8 mm)
- 3102-4 Insert, AL 1/4" (6.4 mm)
- 3102-5 Insert, AL 5/16" (7.9 mm)
- 3102-6 Insert, AL 3/8" (9.5 mm)
- 3102-7 Insert, AL 7/16" (11.1 mm)
- 3102-8 Insert, AL 5/32" (4 mm)
- 9312 Battery Pack, 9102
- 9308 Case, 9102 Rugged Carrying