

HANDHELD DRY-WELLS



Handheld Dry-Wells

Models 9100 and 9102

Smallest dry-wells in the world

Fast and easy thermometer checks

Accuracy to $\pm 0.5^{\circ}\text{C}$

Hart's line of portable dry-wells is incredible. They're the smallest, lightest, and most portable dry-wells in the world. The Model 9100 weighs only 2 pounds 3 ounces (1 kilogram).

Model 9100 HDRC 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 9100 outperforms any 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 300°C (572°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. The 9100 HDRC has a display resolution of 0.1 degrees, an accuracy of $\pm 0.5^{\circ}\text{C}$ between 35 and 200°C and $\pm 1^{\circ}\text{C}$ between 200 and 300°C , a stability of $\pm 0.3^{\circ}\text{C}$, and a stabilization time of five minutes.



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

Model 9102 HDRC Dry-Well

For work in the temperature range of -10°C to 122°C , Hart's Model 9102 HDRC dry-well is another first in the industry.

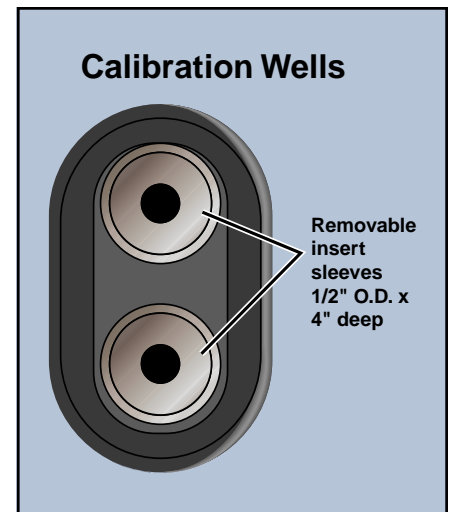
This dry-well is only 3.25 inches high and 6 inches wide, achieves temperatures as low as -10°C , includes a NIST-traceable calibration, and is accurate to $\pm 0.5^{\circ}\text{C}$. The Model 9102 HDRC is excellent for dial gauges, digital thermometers, bulb switches, and other sensors that need calibration below ambient. It's perfect for ISO 9000 quality programs because its calibration is NIST traceable.

Like the 9100, the 9102 dry-well redefines portability and speed. You can take it anywhere you need to go, and when you get there you won't have to read a magazine while you wait for it to reach its set-point temperature.

It 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 9102 also has a battery pack option that gives you approximately four hours of field use when AC power is unavailable.



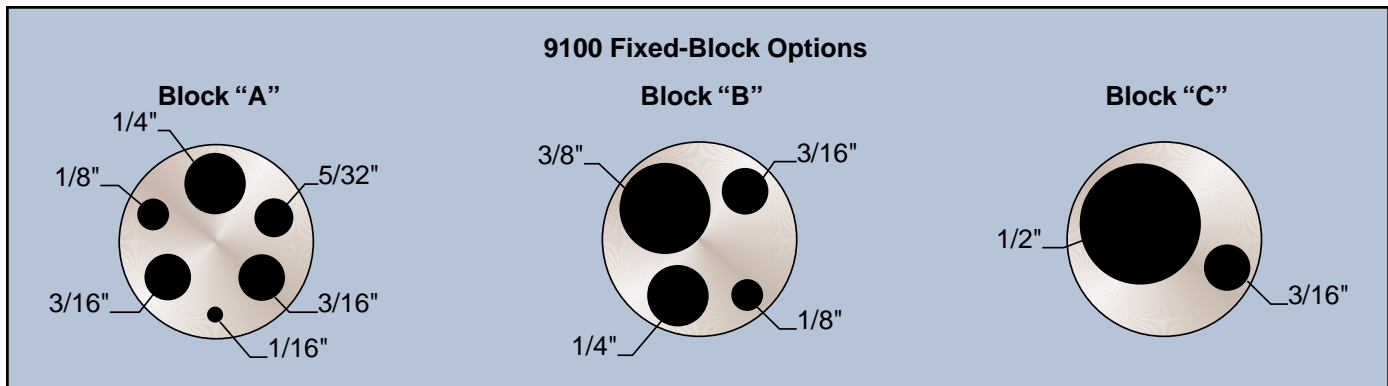
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9102 block configuration. Instrument includes 1/4" and 3/16" inserts. Order additional sizes as needed.

Ranges from -10°C to 300°C

Specifications	9100	9102
Range	35°C to 300°C (95°F to 572°F)	-10°C to 122°C (14°F to 252°F) at 23°C ambient
Accuracy	35° to 200°C: $\pm 0.5^{\circ}\text{C}$ 200° to 300°C: $\pm 1^{\circ}\text{C}$ (holes greater than 0.25": $\pm 2^{\circ}\text{C}$)	-10°C to 100°C: $\pm 0.5^{\circ}\text{C}$ 100°C to 122°C: $\pm 1.0^{\circ}\text{C}$
Stability	$\pm 0.2^{\circ}\text{C}$ at 50°C $\pm 0.3^{\circ}\text{C}$ at 300°C	$\pm 0.1^{\circ}\text{C}$ at -10°C $\pm 0.2^{\circ}\text{C}$ at 122°C
Well-to-Well Uniformity	$\pm 0.2^{\circ}\text{C}$ with sensors of similar size at equal depths within wells	
Heating Times	35° to 300°C: 9.5 minutes	ambient to 100°C: 10 minutes
Stabilization	5 minutes	7 minutes
Cooling Times	300°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]
Power	115 VAC ($\pm 10\%$), 1.5 A or 230 VAC ($\pm 10\%$), 0.8 A, specify, 50/60 Hz, 175 W	94-234 VAC ($\pm 10\%$), 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, and 300°C	Data at -10°C , 25°C, 50°C, 55°C, 100°C, and 122°C



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



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

Ordering Information

- 9100-A HDRC Micro-Block A
- 9100-B HDRC Micro-Block B
- 9100-C HDRC Micro-Block C
- 9300 Rugged Carrying Case



Don't forget a protective case.

Ordering Information

- 9102 HDRC Micro-Block
- 3102-0 Insert, blank
- 3102-1 Insert, 1/16" (1.6 mm)
- 3102-2 Insert, 1/8" (3.2 mm)
- 3102-3 Insert, 3/16" (4.8 mm)
- 3102-4 Insert, 1/4" (6.4 mm)
- 3102-5 Insert, 5/16" (7.9 mm)
- 3102-6 Insert, 3/8" (9.5 mm)
- 3102-7 Insert, 7/16" (11.1 mm)
- 3102-8 Insert, 5/32" (4 mm)
- 9312 Battery pack for 9102, 110 VAC
- 9308 Carrying Case