

# HANDHELD DRY-WELLS



## Model 9102S Dry-Well

For work in the temperature range of  $-10^{\circ}\text{C}$  to  $122^{\circ}\text{C}$ , 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  $-10^{\circ}\text{C}$ , 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.

### Handheld Dry-Well

9102S

- Smallest dry-wells in the world
- Proprietary Hart Scientific controller
- Accuracy to  $\pm 0.25^{\circ}\text{C}$ , stability of  $\pm 0.05^{\circ}\text{C}$  at  $0^{\circ}\text{C}$
- RS-232 interface with Hart Interface-*it* software

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



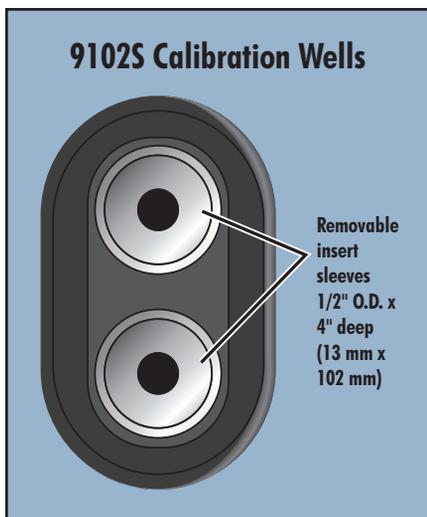
Don't forget a protective case!



Have you considered a good reference thermometer? See page 36.

# Ranges from $-10^{\circ}\text{C}$ to $375^{\circ}\text{C}$

Specifications		9102S
Range		$-10^{\circ}\text{C}$ to $122^{\circ}\text{C}$ ( $14^{\circ}\text{F}$ to $252^{\circ}\text{F}$ ) at $23^{\circ}\text{C}$ ambient
Accuracy		$\pm 0.25^{\circ}\text{C}$
Stability		$\pm 0.05^{\circ}\text{C}$
Well-to-Well Uniformity	$\pm 0.2^{\circ}\text{C}$ with sensors of similar size at equal depths within wells	
Heating Times		ambient to $100^{\circ}\text{C}$ : 10 minutes
Stabilization		7 minutes
Cooling Times		ambient to $0^{\circ}\text{C}$ : 10 minutes
Well Depth		4 inches (102 mm)
Removable Inserts		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		94-234 VAC ( $\pm 10\%$ ), 50/60 Hz, 60 W; or 12 VDC
Size		3.9" H x 5.5" W x 6.9" D (99 x 140 x 175 mm)
Weight		4 lb. (1.8 kg)
Computer Interface	RS-232 included with free Interface- <i>it</i> software	
NIST-Traceable Calibration		Data at $-10^{\circ}\text{C}$ , $0^{\circ}\text{C}$ , $25^{\circ}\text{C}$ , $50^{\circ}\text{C}$ , $75^{\circ}\text{C}$ , $100^{\circ}\text{C}$ , and $122^{\circ}\text{C}$



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

## Ordering Information - 9102S

9102S	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)
9320	Battery pack for 9102S
9308	Carrying Case



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