9100S, 9102S Handheld Dry-Wells

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

- Smallest dry-wells in the world
- Ranges from −10°C to 375°C
- Accuracy to ±0.25°C, stability of ±0.05°C at 0°C
- RS-232 interface with 9930 Interface-it v3.81 software
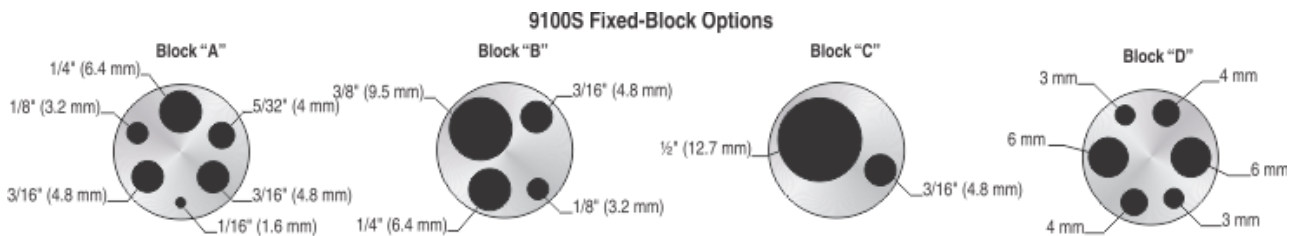
  Fluke Calibration's line of portable dry-wells is incredible. They're the smallest, lightest, and most portable dry-wells in the world. And now they're better than ever!

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 (Note, these wells are fixed and not interchangeable,) 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 ±0.5°C, a stability of ±0.1°C, and a stabilization time of just five minutes.

9100S Fixed-Block Options

Block "A"
1/4" (6.4 mm)
1/8" (3.2 mm)
5/32" (4 mm)
3/16" (4.8 mm)
3/16" (4.8 mm)
1/16" (1.6 mm)

Block "B"
3/8" (9.5 mm)
3/16" (4.8 mm)
1/8" (3.2 mm)
1/4" (6.4 mm)

Block "C"
½" (12.7 mm)
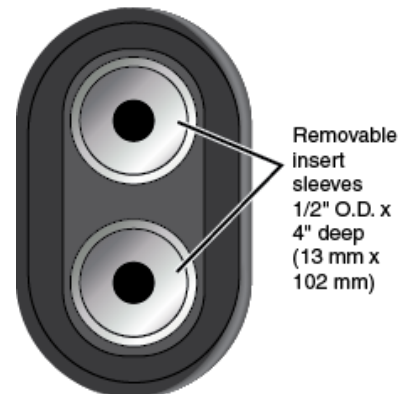3/16" (4.8 mm)

Block "D"
3 mm
4 mm
6 mm
6 mm
4 mm
3 mm

9102S Dry-Well

For work in the temperature range of −10°C to 122°C, our Model 9102S dry-well is another first in the industry, featuring stability to ±0.05°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 ±0.05°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.

9102S Calibration Wells

Removable insert sleeves 1/2" O.D. x 4" deep (13 mm x 102 mm)

Specifications	9100S	9102S
Range	35 °C to 375 °C (95 °F to 707 °F	−10 °C to 122 °C (14 °F to 252 °F) at23 °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 VDC
Size (HxWxD)	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 with free Interface-it software	
NIST-TraceableCalibration	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

Model Name	Description		
9100S-A	HDRC Handheld Dry-Well A		
	Accessory	**Description**	
	9300	Rugged Carrying Case: 9100S	
9100S-B	HDRC Handheld Dry-Well B		
	Accessory	**Description**	
	9300	Rugged Carrying Case: 9100S	
9100S-C	HDRC Handheld Dry-Well C		
	Accessory	**Description**	
	9300	Rugged Carrying Case: 9100S	
9100S-D	HDRC Handheld Dry-Well D		
	Accessory	**Description**	
	9300	Rugged Carrying Case: 9100S	
9102S	HDRC Handheld Dry-Well		
	Accessory	**Description**	
	3102-0	Insert, AL 1/2" X 4" blank	
	3102-1	Insert, AL 1/2" X 4" 1/16"	
	3102-2	Insert, AL 1/2" X 4" 1/8"	
	3102-3	Insert, AL 1/2" X 4" 3/16"	
	3102-4	Insert, AL 1/2" X 4" 1/4"	
	3102-5	Insert, AL 1/2" X 4" 5/16"	
	3102-6	Insert, AL 1/2" X 4" 3/8"	
	3102-7	Insert, AL 1/2" X 4" 7/16"	
	3102-8	Insert, AL 1/2" X 4" 5/32"	
	9308	Rugged Carrying Case : 9102, 9132, 9140	

Accessories common to all models:

Accessory	Description
HART DRYWELL CABLE	An interface cable kit that includes a null modem to connect the Fluke 754 with Fluke Calibration dry-wells and Micro-Baths to automate and document the calibration of temperature sensors and transmitters in the field or at the bench.
Priority Gold Instrument CarePlan	Fluke Calibration Priority Gold Instrument CarePlans are available for most calibration products. Please contact your local Fluke Calibration sales representative for details or to request a quote. You may also call the Customer Care Center at 877-355-3225 or send email to careplans@flukecal.com.
Silver CarePlan	Fluke Calibration Silver CarePlans are available for most calibration products. Please contact your local Fluke Calibration sales representative for details or to request a quote. You may also call the Customer Care Center at 877-355-3225 or send email to careplans@flukecal.com.

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