

Portable lab dry-well



- Designed for on-ship and on-the-go lab applications
- Covers $-40\text{ }^{\circ}\text{C}$ to $140\text{ }^{\circ}\text{C}$
- Includes three-inch and six-inch calibration zones

This calibrator, designed for the U.S. Navy, covers temperatures from $-40\text{ }^{\circ}\text{C}$ to $140\text{ }^{\circ}\text{C}$, delivers the performance you'll only find in true lab standards, and comes in a totally portable case. If your work involves ocean vessels, aircraft, or service trucks, Hart's Portable Lab Dry-Well was designed for you.

The 9007 covers $-40\text{ }^{\circ}\text{C}$ to $140\text{ }^{\circ}\text{C}$. No external cooling is needed, so you get $-40\text{ }^{\circ}\text{C}$ in normal ambient. Set-point accuracy is $\pm 0.15\text{ }^{\circ}\text{C}$ and stability is better than $\pm 0.02\text{ }^{\circ}\text{C}$.

This dry-well comes with a unique calibration at the full, six-inch depth of the well and at a three-inch depth for short

probes. Coefficients for each calibration are stored in the dry-well and can be easily selected from the top-panel control buttons to match the length of the probe being tested.

Encased in an all-aluminum enclosure that is durable, waterproof, and meets the standards of MIL-T-28800, the 9007 comes with both RS-232 and IEEE-488 interface connections. A wide variety of inserts are available covering probe diameters from 1/16 inch (1.6 mm) to 5/8 inch (15.9 mm).

Specifications

Range	$-40\text{ }^{\circ}\text{C}$ to $140\text{ }^{\circ}\text{C}$ at $25\text{ }^{\circ}\text{C}$
Accuracy	$\pm 0.15\text{ }^{\circ}\text{C}$
Stability	$\pm 0.02\text{ }^{\circ}\text{C}$
Heating Times	$25\text{ }^{\circ}\text{C}$ to $140\text{ }^{\circ}\text{C}$: 20 min.
Cooling Times	$25\text{ }^{\circ}\text{C}$ to $-40\text{ }^{\circ}\text{C}$: 25 min.
Stabilization	10 minutes
Test Wells	19 mm dia. x 152 mm deep (3/4 x 6 in)
Communications	RS-232 and IEEE-488
Enclosure	Meets Type II, Class 3, Style D requirements of MIL-T-28800
Power	115 V ac ($\pm 10\%$), 5 A or 230 V ac ($\pm 10\%$), 2.4 A, switchable, 50/60 Hz, 560 W
Size (HxWxD)	35.1 x 27.4 x 42.9 cm (13.8 x 10.8 x 16.9 in)
Weight	16.3 kg (36 lb)
NIST-Traceable Calibration	Data at $-40\text{ }^{\circ}\text{C}$, $0\text{ }^{\circ}\text{C}$, $25\text{ }^{\circ}\text{C}$, $75\text{ }^{\circ}\text{C}$, and $140\text{ }^{\circ}\text{C}$

Ordering Information

9007	Portable Lab Dry-Well, $-40\text{ }^{\circ}\text{C}$ to $140\text{ }^{\circ}\text{C}$, 1/4 in (6.36 mm) insert
3107-2000	Blank insert
3107-2063	1/16 in Insert (1.6 mm)
3107-2125	1/8 in Insert (3.2 mm)
3107-2156	5/32 in Insert (4 mm)
3107-2188	3/16 in Insert (4.8 mm)
3107-2250	1/4 in Insert (6.35 mm)
3107-2313	5/16 in Insert (7.9 mm)
3107-2375	3/8 in Insert (9.5 mm)
3107-2500	1/2 in Insert (12.7 mm)
3107-2625	5/8 in Insert (15.9 mm)
3107-2901	1 User-Specified Hole
3107-2902	2 User-Specified Holes