

Portable pH Meter & Calibrator for Digital Transmitters



The digital calibrator is an absolute necessity for calibrating field transmitters. Calibration of process instrumentation over long distances is now made quick and simple with the introduction of the HI 504920.

The HI 504920 is a hand held portable instrument for the measurement of pH/ORP and temperature and it functions as a reference pH meter by which to calibrate the new HI 504910 transmitter.

Quick, single-point calibration is performed in three simple steps:

- 1 Connect the calibrator to the transmitter by means of the special cable, HI 7290.
- 2 Immerse the calibrator electrode in a sample of the process solution taken as close as possible to the installed process electrode. Wait for the signal to stabilize.
- 3 Press a button to transfer the data to the transmitter, and wait for confirmation on the display.

The operator can now store the reading on the portable meter and later connect the calibrator to the transmitter in order to calibrate the system.



Specifications

		HI 504920
Range	pH	-4.00 to 19.00 pH
	mV	± 600.0 mV; ± 2000 mV
	Temperature	-20 to 120.0°C
Resolution	pH	0.01 pH
	mV	0.1 mV (within ± 400.0 mV); 0.2 mV (± 400 to ± 600 mV)
	Temperature	± 0.1°C (-10°C to 120°C); 1°C (below -10°C)
Accuracy (@20°C)	pH	± 0.01 pH
	mV	± 0.2 mV (within ± 400.0 mV); ± 0.4 mV (± 400 to ± 600 mV); ± 2 mV (outside)
	Temperature	± 0.4°C (0 to 70°C); ± 1°C (outside)
Calibration	pH	automatic, 1 or 2 point, with 5 memorized buffer values (pH 4.01, 6.86, 7.01, 9.18, 10.01)
	mV	automatic, 2 point (0, 350 mV) or 3 point (0, 350, 1900 mV)
pH Electrode	HI 62920 amplified electrode with internal temperature sensor, Matching Pin and DIN connector (included)	
Temperature Compensation	automatic, -20 to 120°C (-4 to 248°F)	
Input Impedance	10 ¹² Ohm	
Power Supply	4 x 1.5V AA batteries (approx. 300 hours of continuous use) or 12 Vdc input	
Infrared Interface	through HI 7920 cable (included)	
Environment	0 to 50°C (32 to 122°F); RH 100%	
Dimensions	196 x 80 x 60 mm (7.7 x 3.1 x 2.4")	
Weight	500 g (1.1 lb.)	

Accessories

HI 62920	Amplified pH electrode with internal temperature sensor and titanium cage	HI 7004/1L	pH 4.01 buffer solution, 1 L bottle
HI 7920	HI 504910/HI 504920 interface cable	HI 7007/1L	pH 7.01 buffer solution, 1 L bottle
		HI 7010/1L	pH 10.01 buffer solution, 1 L bottle

Ordering Information

HI 504920 is supplied complete with HI 62920 pH electrode, HI 7920 interface cable, pH 4 and pH 7 buffer solutions, batteries, 12 Vdc power adapter, rugged carrying case and instructions.