

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

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|----------|---|------------|--------------------------------------|
| 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.