



pH Controllers with Matching Pin

pH 500 series of controllers are simple-to-operate, microprocessor-based process meters packed with features. For more flexibility and better resolution for chart recorders, any two points between 0 and 14 pH can be chosen to correspond to the analog output spans. Several pH 500 models are equipped with a bi-directional RS232 port. Push button password programming prevents tampering. The microprocessor memory is fully programmable and has a 3 month backup power supply. The Fail Safe Alarm system protects the pH 500 against the pitfalls of process control, like power interruption or line failure. With pH 500 quick 1, 2 or 3 point calibration at pH 4.01, 7.01 and 10.01 comes standard. The temperature can be manually or automatically compensated for. Models with RS232 output allow computer compatibility, a necessity for process control instrumentation. You can also choose from ON/OFF or Proportional Dosage to save on chemicals.

Specifications

pH 500	
Range	0.00 to 14.00 pH; -9.9 to 120°C
Resolution	0.01 pH; 0.1°C
Accuracy (@20°C/68°F)	±0.02 pH; ±0.5°C
Input Impedance	10 ¹² Ohm
pH Calibration	automatic, 1, 2 or 3 point, at pH 4.01, 7.01, 10.01
Temperature Compensation	automatic (with Pt100 probe) or manual from -9.9 to 120°C
Outputs	digital: RS232 bi-directional optoisolated; or analog, galvanically isolated: 0-1 mA, 0-20 mA and 4-20 mA, 0-5 Vdc, 1-5 Vdc and 0-10 Vdc
Setpoint Relay	1 or 2 contact outputs SPDT 5A-250 Vac, 5A-30 Vdc (resistive load)
Power Supply	115 Vac ±10% or 230 Vac ±10%; 50/60 Hz
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Dimensions	panel cutout: 140 x 140 mm, instrument: 144 x 144 x 170 mm
Weight	1.6 kg (3.5 lb.)

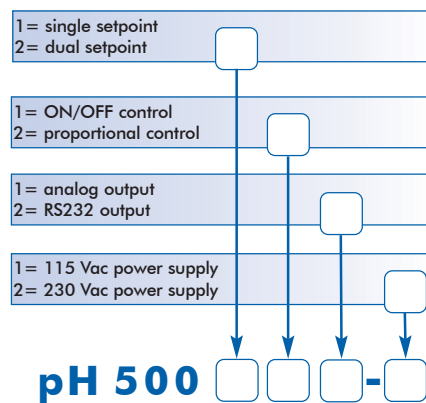
Accessories

HI 7004L	pH 4.01 buffer solution, 500 mL bottle	HI 7010L	pH 10.01 buffer solution, 500 mL bottle
HI 7007L	pH 7.01 buffer solution, 500 mL bottle		

For a complete range of process electrodes and probes, see section T2.

Ordering Information

Each pH 500 model is supplied complete with mounting brackets and instructions.



Example:

pH 500221-2

pH controller with dual setpoint, proportional control, analog output and 230 Vac power supply.