



## 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 <sup>12</sup> 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.)

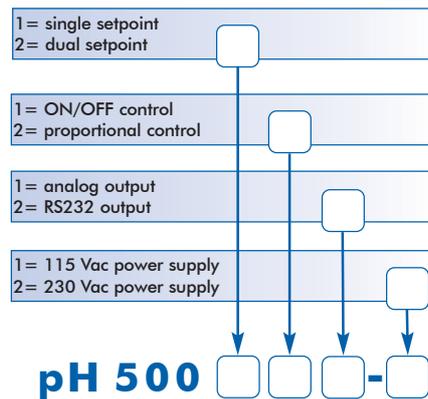
### Accessories

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.