



## Wall Mounted Microprocessor pH Controllers with Matching Pin



### Specifications

HI 21	
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: RS485 bi-directional opto-isolated; 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); fuse: 5A, 250V
Alarm Relay	contact output SPDT 5A-250 Vac, 5A-30 Vdc (resistive load); fuse: 5A, 250V
Power Supply	115 Vac ±10% or 230 Vac ±10%; 50/60 Hz; fuse: 400 mA, 250 V
Power Consumption	15 VA
Environment	0 to 50°C (32 to 122°F); RH max. 85% non-condensing
Protection	IP 54
Dimensions	221 x 181 x 86 mm (8.7 x 7.1 x 3.4")
Weight	1.4 kg (3.1 lb.)

### Accessories

HI 7004L	pH 4.01 buffer solution, 500 mL bottle	HI 8427	pH / ORP electrode simulator
HI 7007L	pH 7.01 buffer solution, 500 mL bottle	HI 931001	pH / ORP electrode simulator with display
HI 7010L	pH 10.01 buffer solution, 500 mL bottle		

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

The HI 21 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. Some HI 21 models are equipped with a bi-directional RS485 port, which allows remote control of the instrument from a PC.

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 HI 21 against the pitfalls of process control, like power interruption or line failure.

With HI 21 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.

You can also choose from ON/OFF, Proportional and PID control to save on chemicals.

### Ordering Information

Each HI 21 model is supplied complete with instructions.

