pH500

pH Digital Controllers

with Matching Pin

- Alarm
  - Fail Safe Alarm System
- ATC
  - Automatic temperature compensation
- 3 Point Calibration
  - Up to three point calibration

pH500 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 pH500 models are equipped with a bi-directional RS232 port. Push button password programming prevents tampering.

The Fail Safe Alarm System protects the pH500 against the pitfalls of process control, like power interruption or line failure. With pH500 quick one, two or three 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	pH500
Range	0.00 to 14.00 pH; -9.9 to 120°C
Resolution	0.01 pH; 0.1°C
Accuracy (@25°C/77°F)	±0.02 pH; ±0.5°C
Input Impedance	10^{12} Ohm
pH Calibration	automatic, one, two or three point, at pH 4.01, 7.01, 10.01
Temp. 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
Set Point Relay	1 or 2 contact outputs SPDT 5A-250 VAC, 5A-30 VDC (resistive load), fuse protected (5A, 250V fast fuse)
Alarm Relay	1 contact output SPDT, 5A-250 VAC, 5A-30 VDC (resistive load), fuse protected (5A, 250V fast fuse)
Power Supply	115 VAC ±10% or 230 VAC ±10%; 50/60 Hz
Power Consumption	15 VA
Over Current Protection	400 mA 250V fast fuse
Max. Oscillation Frequency	4 MHz
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.)
Ordering Information	Each pH 500 model is supplied complete with mounting brackets and instructions. **Choose your configuration** **pH500111-1** single setpoint, on/off control, analog output, 115V **pH500111-2** single setpoint, on/off control, analog output, 230V **pH500121-1** single setpoint, proportional control, analog output, 115V **pH500121-2** single setpoint, proportional control, analog output, 230V **pH500211-1** dual setpoint, on/off control, analog output, 115V **pH500211-2** dual setpoint, on/off control, analog output, 230V **pH500221-1** dual setpoint, proportional control, analog output, 115V **pH500221-2** dual setpoint, proportional control, analog output, 230V **pH500222-1** dual setpoint, proportional control, RS232 output, 115V **pH500222-2** dual setpoint, proportional control, RS232 output, 230V

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