

HANNA Instruments
pH502 pH Digital
Controllers



HANNA Instruments pH502 pH Digital Controllers Owner's Manual

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HANNA Instruments pH502 pH Digital Controllers



pH Digital Controllers with Matching Pin and PID Control

- CAL Check™
Alerts users of calibration status
- ATC
Automatic temperature compensation
- 3 Point Calibration
Up to three point calibration

The pH502 series of controllers offer many features to increase the level of control available in your plant. These instruments can be configured to utilize P, PI, PID controlling. With this feature, the pH502 takes the place of three instruments that only allow one configuration each. The pH502 line includes models that incorporate control through analog output to drive any compatible device, such as an electrovalve or pump. The solid state relay is available to ensure maximum life of the switching device. Each model has a differential input for a grounding bar to extend electrode life.

Fail Safe Alarm System protects against power interruption or line failure. 1, 2 or 3 point automatic calibration and manual or Automatic Temperature Compensation complete the features of this controller.

Specifications

Specifications	pH502
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	1012 Ohm
pH Calibration	automatic, one, two or three 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 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) or 1 or 2 Solid State Relay (SSR), 1A, 250 VAC (resistive and inductive load), fuse protected (2A, 250V fast fuse)
Alarm Relay	one contact output SPDT, 5A-250 VAC, 5A-30 VDC (resistive load), fuse protected (5A, 250V 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
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	<p>Each pH 502 model is supplied complete with mounting brackets and instructions</p> <p>Choose your configuration</p> <p>pH502421-1 Dual setpoint with SSR relay, on/off and PID controls, analog output, 115V</p> <p>pH502421-2 Dual setpoint with SSR relay, on/off and PID controls, analog output, 230V</p>

Line ID: @neonics



Documents / Resources



[HANNA Instruments pH502 pH Digital Controllers](#) [pdf] Owner's Manual
pH502, pH502421-2, pH502 pH Digital Controllers, pH502 pH, Digital Controllers, Controllers

References

- [User Manual](#)

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