

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.)

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

Ordering Information

pH solutions begin on page 2.154

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AmpHel Flat Tip Industrial Electrodes

- AmpHel amplified
- Matching pin
- Flat tip
- PVDF body



AmpHel Flat-tip pH Electrodes

General Purpose pH Electrodes

Code	Range	Body	Junction	Electrolyte	Glass Type	Temperature	ATC	Max Pressure	Connector	Cable
HI6100405	0-13	PVDF	double, PTFE	polymer	GP	-5 to 80 °C	-	6 bar (87 psi)	BNC	5 m
HI6100410	0-13	PVDF	double, PTFE	polymer	GP	-5 to 80 °C	-	6 bar (87 psi)	BNC	10 m
HI6101405	0-13	PVDF	double, PTFE	polymer	GP	-5 to 80 °C	Pt100	6 bar (87 psi)	BNC + lead	5 m
HI6101415	0-13	PVDF	double, PTFE	polymer	GP	-5 to 80 °C	Pt100	6 bar (87 psi)	BNC + lead	15 m

Low Temperature pH Electrodes

Code	Range	Body	Junction	Electrolyte	Glass Type	Temperature	ATC	Max Pressure	Connector	Cable
HI6101605	0-12	PVDF	double, PTFE	polymer	LT	-10 to 80 °C	Pt100	6 bar (87 psi)	BNC + lead	5 m

High Temperature pH Electrodes

Code	Range	Body	Junction	Electrolyte	Glass Type	Temperature	ATC	Max Pressure	Connector	Cable
HI6100805	0-14	PVDF	double, PTFE	polymer	HT	0 to 100 °C	-	6 bar (87 psi)	BNC	5 m
HI6101805	0-14	PVDF	double, PTFE	polymer	HT	0 to 100 °C	Pt100	6 bar (87 psi)	BNC + lead	5 m

pH Electrodes for Acid Samples with Fluoride Ions (F⁻ max 2 g/L, Temperature Max 60 °C, pH >2)

Code	Range	Body	Junction	Electrolyte	Glass Type	Temperature	ATC	Max Pressure	Connector	Cable
HI6100205	0-10	PVDF	double, PTFE	polymer	HF	-5 to 60 °C	-	6 bar (87 psi)	BNC	5 m
HI6101205	0-10	PVDF	double, PTFE	polymer	HF	-5 to 60 °C	Pt100	6 bar (87 psi)	BNC + lead	5 m

AmpHel Flat-tip ORP Electrodes

Platinum Type ORP Sensors

Code	Range	Body	Junction	Electrolyte	Temperature	ATC	Max Pressure	Connector	Cable
HI6200405	±2000 mV	PVDF	double, PTFE	polymer	-5 to 100 °C	-	6 bar (87 psi)	BNC	5 m

Gold Type ORP Sensors

Code	Range	Body	Junction	Electrolyte	Temperature	ATC	Max Pressure	Connector	Cable
HI6200505	±2000 mV	PVDF	double, PTFE	polymer	-5 to 100 °C	-	6 bar (87 psi)	BNC	5 m