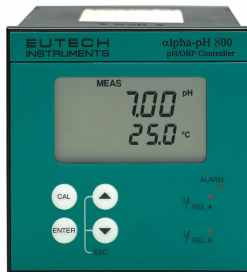




## alpha-pH800



### Product Features

- v User-Customization through Advanced Setup Menu offers flexibility in matching the controller's functions to suit individual's specific requirement
- v Automatic Calibration with Auto-Buffer Recognition eliminates mistakes during calibration
- v Symmetrical Mode Operation eliminates electronic noise problems when used with solution ground
- v One-Point Online Calibration without shutting down the line
- v Hold Relay for use with float switches/flow switches and other controllers as a failsafe function
- v 0 to 2000 Second Time Delay Adjustment on control and alarm delays
- v Galvanically Isolated Scaleable 0-20/4-20 mA Outputs for pH/ORP
- v Hysteresis Band Protection against rapid control switching of relays from wear and tear
- v Non-Volatile Memory retains all stored parameters and calibration data even if power fails
- v Large Dual Display shows pH (or ORP) with temperature simultaneously - features clear multiple icons, set points, and status messages
- v Choice of Temperature Sensor Pt100/Pt1000 with 2-wire or 3-wire temperature input selection
- v Easy Installation and Wiring with detachable plug-in connectors

### Applications

**General:** Useful for any batch or on-line type application that requires accurate pH or ORP control.

**Water Purification/Treatment:** Use for batch and on-line control of incoming process water, rinse water treatment, recirculating system and waste water treatment.



**Industrial:** Ideal for chemical processing, food processing, aquarium, pharmaceutical, hydroponics and waste control industries.

## Specifications

Product Specification	Description
<b>pH Range</b>	0.00 to 14.00 pH
<b>Resolution &amp; Accuracy</b>	0.01 pH & $\pm 0.01$ pH
<b>mV Range</b>	-999 to 1000 mV
<b>Resolution &amp; Accuracy</b>	1/ $\pm 2$ mV
<b>Temperature Range</b>	-10 to 110 °C
<b>Resolution &amp; Relative Accuracy</b>	0.1 °C & $\pm 0.5$ °C
<b>Temperature Sensor</b>	Pt 100 (3-wire)
<b>Temperature Compensation</b>	Auto / Manual (0°C to 100°C)
<b>Set Point and Controller Functions</b>	
<b>Function</b>	Limit Control
<b>Switching pH/ORP Hysteresis</b>	0.00 to 2.00 pH or 0 to 100 mV
<b>Contact Outputs, Controller</b>	2 SPDT relays
<b>Switching Voltage/ Current/ Power</b>	Max 250 VAC/ Max 3A/ Max 600 VA
<b>Electrical Data and Connections</b>	
<b>Power Requirement</b>	85 to 260 VAC, 50/60 Hz or DC
<b>Signal Output/ Load</b>	4-20mA galvanically isolated / 200Ω
<b>pH/ORP Input</b>	BNC ( $10^{12}$ Impedance)
<b>Connection Terminals</b>	3 detachable connectors (3-pin; 7-pin & 9-pin terminal blocks)
<b>Main Fuse</b>	250mA, Anti-surge (BUSSMAN S504 + 250mA)
<b>Environmental Conditions</b>	
<b>Maximum Relative Humidity</b>	80% up to 31 °C decreasing linearly to 50% at 40 °C
<b>Ambient Temp. Operating Range</b>	-10 to 50 °C (14 °F to 122 °F)
<b>Mechanical Specifications</b>	
<b>Dimensions</b>	96 x 48 x 150 mm
<b>Weights</b>	300 g (boxed)