

# pH CONTROLLER PPH-1



## FEATURES

- **0-14pH** range with 0.01pH resolution.
- Large 3 1/2 digital LCD display.
- Enter all calibration parameters into non-volatile memory with an easy to use rotary encoder.
- Increased fine-tuning of dosing with automatic pulse width modulation.
- Alarm output with high and low set point. Potential free relay contacts.
- Fully isolated 4-20mA current output
- **240VAC/5A** relay output easily connected via 3 way terminal strip.
- **4 - 20mA** signal output configurable over entire 0-14pH range.
- Thermo plastic enclosure with transparent cover. Rated to IP55 specifications

THE RIGHT CHOICE



**HOFMANN**

## SPECIFICATIONS

<b>Range:</b>	0 to 14pH with 0.01pH resolution
<b>Display:</b>	3 1/2 digit LCD display
<b>Indicators:</b>	LED lights to indicate set point operation, pulse mode, flow and configuration status.
<b>Calibration:</b>	All calibration parameters are programmed into non-volatile memory.
<b>Electrode:</b>	BNC, external of housing.
<b>Signal output:</b>	4-20mA software configured over range 0-14pH. Screw terminals for fully isolated 4-20mA output located by removing front section.
<b>Control range:</b>	Set point range 0pH to 14pH
<b>Output relay:</b>	240 VAC, 5 Amps max. resistive load. 3 terminals provide earth, neutral and active. 5A fuse protects instrument and relay output.
<b>Pulsed output:</b>	Selected through setup program. Pulse width adjusts automatically to suit dosing requirements. On time changes from continuous to minimum 1.5 seconds. Pulse interval increases / decreases to further fine-tune a dosing cycle.
<b>Output relay:</b>	240 VAC, 5 Amps max. resistive load. 3 terminals provide earth, neutral and active. 5A fuse protects instrument and relay output.
<b>Alarm relay:</b>	Potential free contacts.
<b>Power:</b>	240VAC 50Hz 7VA max.
<b>Housing:</b>	Thermoplastic with transparent lid. Rated IP 55
<b>Dimensions:</b>	(W)130mm x (H)95mm x (D)85mm.

## FEATURES

The new PPH-1 pH controller features a simple and safe way for all configuration and calibration procedures. All programmed parameters are stored in non-volatile memory and are not lost if the instrument loses power.

You use the 'rotary encoder knob' to scroll through setup menus and dial up/down numbers when prompted to enter values for relay or alarm setpoints, current signal low and high points etc.

Dual coloured LED's show the operational status of the instrument or setup program currently available. You scroll through setup menus with the encoder knob and once a menu is selected values are then increased or decreased by rotating the encoder knob clock- or anticlockwise.

The desired value is selected and saved with the momentary push switch.

The rotary encoder only becomes active if invoked through the instrument configuration program. This feature avoids setpoints or calibration values being changed inadvertently.

The PPH-1 features 1 output relay with switched 240VAC. This output can be configured for up/down dosing in on/off mode, proportional dosing or adaptive proportional dosing.

The relay output pulse varies from continuously on to 1.5 sec ON and 60sec OFF in proportional mode. The ON/OFF times lengthen or shorten depending on the rate of change of pH in adaptive proportional mode.

The alarm relay has potential free contacts. The adjacent 240VAC terminal assists wiring if a 240VAC alarm output is required.

A low and high setpoint can be selected for the alarm relay. This output can also be used for an additional setpoint if required.

The isolated 4-20mA signal output is configured via the program. 4mA can be configured between pH0.00 to pH7.00 20mA is configured between pH7.00 and pH14.00 Minimum slope for the signal output however is pH7.00

A flow switch input if made active locks out the relay output. This input can be configured for normally open or normally closed. (N/O or N/C)

Wiring the PPH-1 is easy. Simply remove the front panel to reveal the terminals. The output relay provides 240VAC with active, neutral and earth. A pump or valve can be wired directly without the need for additional junction terminals.

