pH/mV CONTROLLER PMH-2

FEATURES

- Select pH or mV operation
- 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

Range:	0 to 14pH 0.01pH resolution 0 to +1000mV 1mV resolution
Display:	3 1/2 digit LCD display
Indicators:	LED lights to indicate set point operation, pulse mode, flow and configuration status.
Calibration:	All calibration parameters are programmed into non-volatile memory.
Electrode:	BNC, external of housing.
Mode:	Select operation of pH or mV with selector situated under the subpanel.
Signal output:	4-20mA, fully isolated Range 0 to14pH, 0 to+1000mV, Screw terminals for 4-20mA output located under subpane.
Control range:	Set point range 0pH to 14pH 0mV to +1000mV
Relay 1:	240 VAC, 5 Amps max. resistive load. 3 terminals provide earth, neutral and active. 5A fuse protects instrument and relay output.
Pulse Output:	Pulse width adjusts automatically to suit dosing requirements. Pulse interval increases / decreases to further fine-tune a dosing cycle.
Relay 2 / Alarm:	Potential free contacts. Relay 2 can be configured as Alarm with a low & high setpoint. Can be changed to act as a second setpoint in up or down mode.
Power:	240VAC 50Hz 7VA max.
Housing:	Thermoplastic with transparent lid. Rated IP 55
Dimensions:	*(W)*166mm x *(H)*160mm x *(D)*90mm.

FEATURES

The new PMH-2 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 looses 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 by pushing the rotary encoder knob.

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

The PMH-2 features 2 output relays. Relay 1 provides 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.

Relay2 has potential free contacts. The adjacent 240VAC terminal assists wiring if a 240VAC output is required.

A low and high setpoint can be selected for the alarm relay. This output can also be changed to perform as a second setpoint with up/down mode 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 Maximum slope for the signal output however is pH1.00

A flow switch input if made active locks out the relay outputs. This input is configurerd for normally open or normally closed flowswitches. *(N/O or N/C)*

Wiring the PMH-2 is easy. Simply remove the subpanel to reveal all terminals and selector to change pH/mV. The output relay provide 240VAC with active, neutral and earth. A pump or valve can be wired directly without the need for additional junction terminals.