

### EUTECH INSTRUMENTS pH 1000 1/4-DIN pH/ORP Proportional/On/Off Controller



#### All the features of the economical pH 800 plus proportional control

- Controller features fully adjustable 0 to 20 mA/4 to 20 mA output.
- Easily program relays, either to normally open or normally closed, with the front keypad.
- Two level password protection keeps your program parameters safe.

Control your process with three available control strategies: On/off, proportional pulse length, or proportional pulse frequency. Use proportional control to gradually increase or decrease pump or valve response, depending on the deviation from the set point.



56710-00

Manually control test relays with the touch of one button. Relays include programmable time delay to minimize false alarms. Hold relay feature lets you connect other controllers, flow switches, or level switches for failsafe operation.

Controller is compatible with a variety of electrodes, including glass and antimony. Symmetrical electrode inputs eliminate electrical noise problems when used with a solution ground. Connections are made through the two removable terminal strips for easy installation. Order electrode separately at right or see pages 1300-1309 for the complete line of industrial electrodes.

#### Specifications & Ordering Information

Catalog number	K-56710-00	K-56710-05
Range	pH	0.00 to 14.00
	mV	±1000 mV
	Temp	-9.9 to 125.0°C
Resolution	pH	0.01
	mV	1 mV
	Temp	0.1°C
Accuracy	pH	±0.01
	mV	±1 mV
	Temp	±0.5°C
ATC	100 Ω or 1000 Ω Pt RTD, -9.9 to 125°C, terminal strip, 2-or 3-wire system	
Control type	Proportional or on/off	
No. of set points	Three (high, low, and alarm)	
Input impedance	106 MΩ	
Dead band	0.1 to 1.0 pH units; 10 to 100 mV	
Display	Dual-line LCD; 4-digit upper and 3½-digit lower	
Output	Control	Two SPDT relays; 110 VAC, 6 A, 500 W
	Alarm	110 VAC, 6 A, 500 W with adjustable delay (0 to 200 sec)
	Pulse	Pulse length (0.5 to 20 sec) or pulse frequency (60 to 120 Hz)
	Current	Isolated 0 to 20/4 to 20 mA, 600 Ω max load, adjustable and invertible
Programmable relay delay	0 to 2000 sec	
Power	110 VAC, 48 to 62 Hz	220 VAC, 48 to 62 Hz
Housing	¼-DIN, IP54 front, IP30 housing	
Dimensions	3¼" W x 3¼" H x 6¼" D (96 x 96 x 175 mm)	
Price		

**K-27020-43 Industrial pH electrode** with solution ground

**K-50001-00 Power cord;** U.S. standard plug, 6 ft, 120 VAC

### EUTECH INSTRUMENTS pH 2000 Advanced pH/ORP PI Controllers

#### Most advanced features of any controller in its price range

- Programmable for on/off, proportional, and PI (proportional integral) control
- Proportional pulse frequency and pulse length control
- Two-point pH calibration with automatic or manual buffer recognition; controller recognizes a wide range of buffer sets.

Controllers are ideal for industries that require accurate and precise pH or ORP control. The ½-DIN wall mount model is IP66 (NEMA 4X)-rated and suitable for wall, panel, or pipe mounting. Large backlit display provides easy reading of pH/mV and temperature measurements, even in low light conditions. Universal power supply input from 80 to 250 VAC/DC allows for use at multiple sites.



56715-00

The pH 2000 controllers feature removable terminal strips for simple installation. The controller allows asymmetrical or symmetrical electrode inputs and operation. Symmetrical mode eliminates electrical noise problems when used with a potential matching pin as a solution ground.

Two programmable relay outputs for set points, delay, hysteresis, or control functions, and separate programmable alarm relay provide multiple options for control. Individually adjustable high and low set point dead bands prevent rapid contact switching if the value fluctuates near the set point. Programmable relay delay minimizes false alarms caused by minor fluctuations. Both models feature two galvanically isolated and scaleable 0 to 20/4 to 20 mA outputs for pH/ORP and temperature.

Order pH/ORP electrodes with 100 or 1000 Ω Pt RTD ATC elements listed on pages 1300-1309.

#### Specifications & Ordering Info



Catalog number	K-56715-00	K-56715-10
Description	½-DIN wall-mount	½-DIN panel-mount
Range	pH	-2.00 to 16.00
	mV	±0 to 100.0%; -1000 to 1000
	Temperature	-9.9 to 125.0°C
Resolution	pH	0.01
	mV	0.1%; 1
	Temperature	0.1°C
Accuracy	pH	±0.01
	mV	±2
	Temperature	±0.5°C
ATC	Automatic or manual, 100 Ω or 1000 Ω Pt RTD, 2-or 3-wire system	
Control type	On/off; proportional; proportional integral (PI)	
Number of set points	Two	
Display	Dual-line backlit LCD; 4-digit upper and 3½-digit lower	
Output	Control	Three SPST relays, 3 A, 250 VAC/600 W max
	Alarm	One SPDT relay, 3 A, 250 VAC/600 W max
	Current	Two channels; isolated 0 to 20/4 to 20 mA, 600 Ω max load
	Voltage	12 VDC, 50 mA
Wash contact relay	Latching/pulse (switchable); max 250 VAC, 3 A, 600 W, programmable for interval (0 to 199.9 hours) and duration (0 to 1999 sec)	
Electrode use	Glass or antimony	
Password protection	Two-level password protection	
Power	80 to 250 VAC/DC, 48 to 62 Hz	
Housing	½-DIN, IP66 (NEMA 4X)	½-DIN, IP54 (front panel)
Dimensions	5¼" W x 5¼" H x 4¼" D (144 x 144 x 108 mm)	3¾" W x 3¾" H x 6¼" D (96 x 96 x 175 mm)
Price		

**K-27020-43 Industrial pH electrode** with solution ground

**K-50001-00 Power cord;** U.S. standard plug, 6 ft, 120 VAC