



INDUSTRIAL pH INSTRUMENTATION & ELECTRONICS

Pulse Frequency pH Controller

PHCN-23
\$1192



- ✓ Proportionately Controls Two Chemical Metering Pumps (Acid and Base)
- ✓ Accuracy of ± 0.03 pH
- ✓ Automatic Temperature Compensation
- ✓ Rugged, Splashproof Case for Panel or Wall Mounting



The PHCN-23 pH Controller features two exponentially scaled pulse frequency outputs, which proportionately control two PHP-200/210 series chemical metering pumps, and two relay contacts. This provides precise pH control for both acid and base additions. Both setpoints are independently adjustable. The setpoint for acid addition controls a pulse frequency output and a corresponding relay contact. The setpoint for base addition controls the other pulse frequency output signal and its corresponding relay. These setpoints feature an adjustable bandwidth of 1 to 3 pH units. An adjustable timer will check if the pH value remains above or below setpoint to provide system error indication. The PHCN-23 has a splashproof, gasketed, Noryl case, which can be either wall or panel mounted. The PHCN-23 also has a 4 to 20 mA analog output, proportional to the 0 to 14 pH range. The PHCN-23 is compatible with a variety of pH electrodes for a wide range of applications.

PHCN-23, \$1192, shown larger than actual size.



PHE-6510 and PHEH-65-10, \$115 + 44 = \$154. Submersible electrode sold separately. See page D-50. Basic unit and installation fitting.

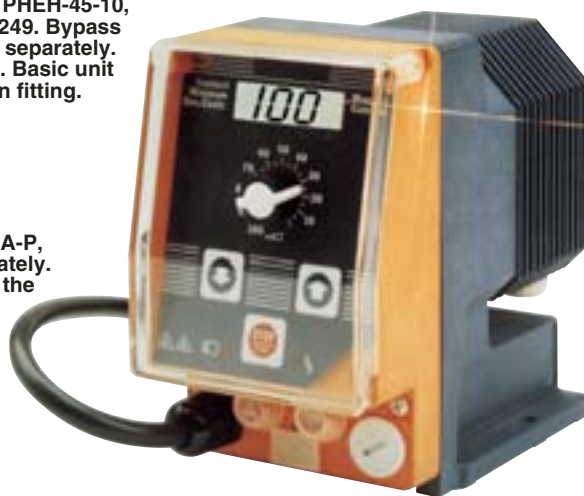


PHE-4580 and PHEH-45-10, \$115 + 134 = \$249. Bypass electrode sold separately. See page D-48. Basic unit and installation fitting.



PHE-5460 and PHEH-54-10, \$115 + 54 = \$169. In-line electrode sold separately. See page D-49. Basic unit and installation fitting.

Compatible Pumps



Pumps, PHP-201A-P, \$845, sold separately. See L Section of the Flow Handbook.

Specifications

Accuracy: ±0.03 pH

Resolution: 0.01 pH

Display: LCD, 0.00 to 14.00 pH

Control Range: 0 to 14 pH

Pulse Frequency Outputs: Two each, potential free contact outputs for control of two PHP-200/210 Series chemical metering pumps; Frequency from 10 to 100 pulses/min.; exponentially scales over an adjustable bandwidth of 1 to 3 pH units; control direction opposite to each other (one each for acid and base)

Alarm Relays: 2 each, 3 amp 250 Vac

Setpoints: Independent, adjusted over full 0 to 14 pH range.

pH Electrode Connection: BNC

Input Impedance: >5 x 10¹² ohms

Temperature Compensation:

Fixed at 25°C or automatic with 100 Ω Pt RTD

Analog Output: Isolated 4 to 20 mA recorder output

Size: 146 H x 178 W x 127 mm D (5¾ x 7 x 5")

Weight: 0.68kg (1.5 lb)

MOST POPULAR MODELS HIGHLIGHTED!



PHCN-23, \$1192, shown smaller than actual size.

To Order (Specify Model Number)

Model No.	Price	Description
PHCN-23	\$1192	Dual output pulse frequency pH controller
ES-2256	125	Reference Book: Water Pumps and Pumping Systems

See pages D-48 to D-50 for industrial style electrodes.

Comes with complete operator's manual. Electrodes and Metering Pumps Sold Separately.

Ordering Examples: PHCN-23, dual output pulse frequency pH controller, \$1112.

PHCN-23, pH controller, PHE-6510, pH electrode, PHEH-65-10, mounting assembly, \$1192 + 115 + 44 = \$1351.



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• Flow and Level

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• pH and Conductivity

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