



Microprocessor-Based pH Controller with Automatic Temperature Compensation

PHCN-37 Series



Don't forget your buffer solutions!

4.00 pH buffer, PHA-4.
7.00 pH buffer, PHA-7
10.00 pH buffer, PHA-10.
All in 500 mL (1 pt) bottles

- ✓ Microprocessor-Based Versatility
- ✓ High and Low Alarm Setpoints
- ✓ Scalable 4 to 20 mA, 0 to 20 mA or 0 to 10V Output
- ✓ Compact Panel Design

This microprocessor-based family of pH, ORP and pH/ORP panel mounted controller is designed for a wide variety of environmental monitoring applications. The units feature automatic or manual temperature compensation of pH, two 5 A mechanical relays and a choice of a scalable 4 to 20 mA, or 0 to 20 mA control or recording output or a 0 to 10V output. For ease of operation all calibration and parameter setpoints are selectable through the front keypad. The PHCN/ORCN/OPCN-37 can be interfaced with a variety of pH and ORP electrodes.



PHCN-37 shown smaller than actual size with PHE-6510 and PHEH-65-10. Sold separately.

Specifications

ORP

Range:

ORCN-37: ± 2 Vdc

OPCN-37: ± 620 mV

Resolution: 0.1, 1 mV

Accuracy: 0.1 mV @ 25°C

Decimal Point: 2 position auto ranging pH and Temperature

Range: 0 to 14.00 pH; 0 to 100°C (32 to 212°F)

Resolution: 0.01 pH, 0.1°C

Calibration pH: 2 or 3 point

Accuracy: ± 0.03 pH; $\pm 0.5^\circ\text{C}$

Common Specifications

Display: 4-digit, LED, 13.7 mm (0.54")

Relays: Dual SPDT (form C)

5 A @ 240 Vac, mechanical relay.

Programmable deadband hysteresis around setpoints.

Output: 4 to 20 mA, 0 to 20 mA or

0 to 10V (scalable) software selectable

Input Impedance: $>10^{12} \Omega$

Temperature Compensation:

Manual or Automatic, 0 to 100°C using

Pt 100 Ω or Pt 1000 Ω RTD

Connectors: pH/ORP-BNC;

Temperature -terminal strip

Power: 115 Vac, 230 Vac, 50/60 Hz;

12 to 32 Vdc or 26 to 56 Vdc

Panel Cutout: $\frac{1}{8}$ DIN, 45 H x 92 mm W (1.772 x 3.622")

Dimensions: 48 H x 96 W x 177 mm D (1.89 x 3.78 x 7.00")

Weight: 580 g (1.27 lb)

To Order

Model No.	Description
PHCN-37	Microprocessor-based pH controller
ORCN-37	Microprocessor-based ORP controller
OPCN-37	Microprocessor-based selectable pH or ORP controller

Comes complete with operator's manual.

To order with isolated analog output, add suffix "-AI" to model number for additional cost.

To order with 10 to 32 Vdc power, add suffix "-DC10/32" to model number for additional cost.

To order with 26 to 56 Vac power, add suffix "-DC26/56" to model number for additional cost.

Ordering Examples: PHCN-37 microprocessor-based pH controller.

ORCN-37 micro processor-based ORP controller.