



## Microprocessor-Based pH Controller with Automatic Temperature Compensation

### PHCN-37 Series



- ✓ 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 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-37 can be interfaced with a variety of pH electrodes.

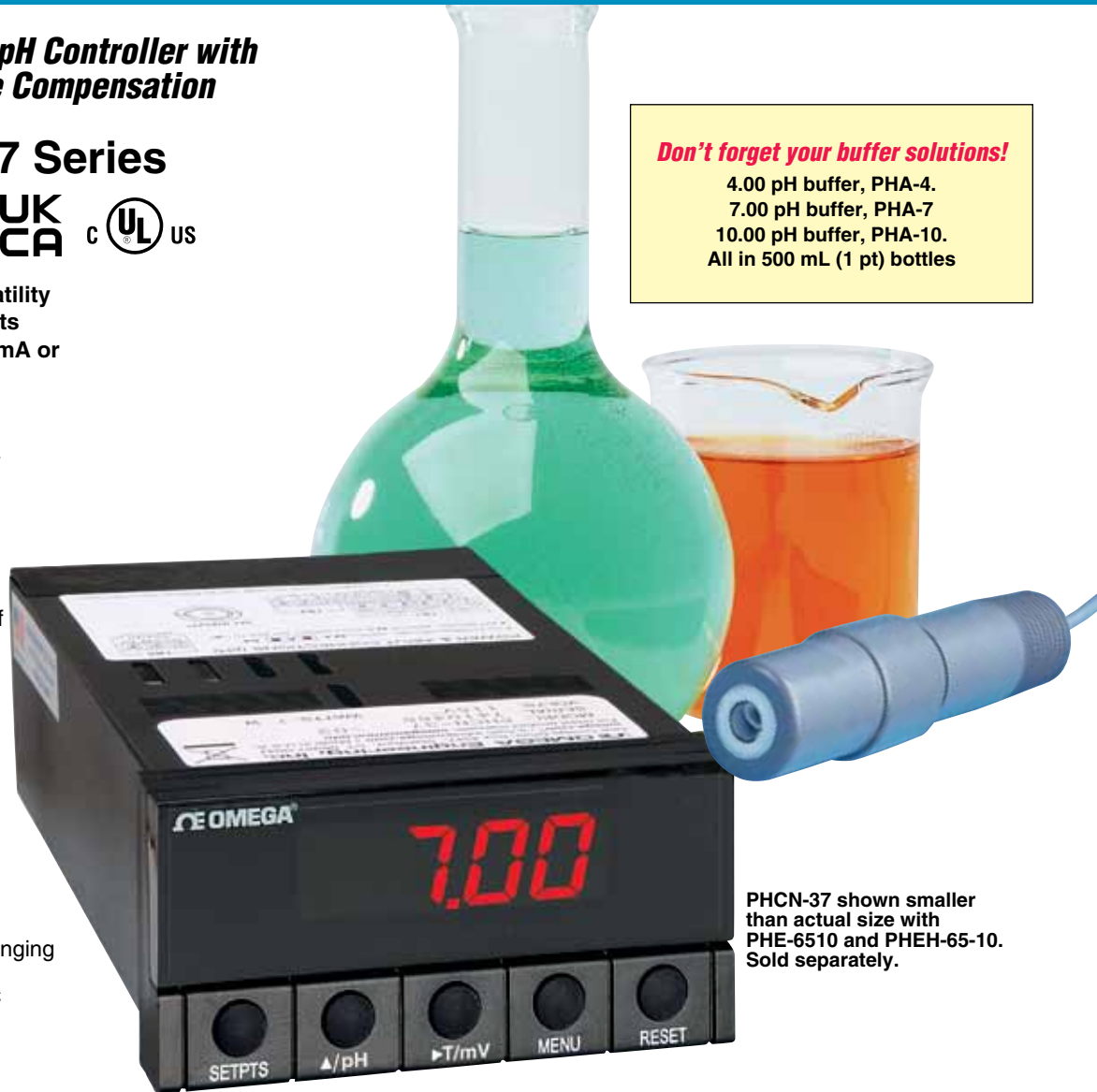
### Specifications

- 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; ±0.5°C
- Common Specifications**
- Display:** 4-digit, LED, 13.7 mm (0.54")
- Relays:** 2 From "C" on/off relays. Configurable for latched and unlatched by software.

Max Current: 5 AMPS, **Resistive Load\***  
Max Voltage: 250 V AC or 28 V DC

**\*Important Note:** For inductive loads not to exceed maximum voltage/current relay specifications, a proper TVS protection diode needs to be used externally across Wiper and NC/NO contacts of relays.

**Output:** 4 to 20 mA, 0 to 20 mA or 0 to 10V (scalable) software selectable  
**Input Impedance:** >10<sup>12</sup> Ω



**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

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

**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; 10 to 32 Vdc

**Panel Cutout:** 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. 115 VAC power.
PHCN-37-230	Microprocessor-based pH controller. 230 VAC power.
PHCN-37-DC10/32	Microprocessor-based pH controller. 10/32 VDC power.

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.

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