



## pH Controller and Transmitter

### PHCN-961



- ✓ Measure Temperature and Control pH or ORP
- ✓ Built-In Memory Backup When Power Fails
- ✓ NEMA 4X (IP65) Wall or Panel Mount Enclosures
- ✓ -2 to 16 pH Range
- ✓ 4 to 20 mA Output
- ✓ Display 4-Digit LCD 13.7 mm (0.54")
- ✓ LCD Blue Backlight
- ✓ RS485 Communications

The PHCN-961/962 series of pH controller and transmitter provides a reliable method of monitoring and controlling pH in water treatment, electrolytic water cleaning, chemical industry, food process, cleaning water or wastewater treatment, and neutralization processes.

The controllers standard features include a digital display capable of displaying pH readings between -2 and 16 pH or ORP readings between -2000 and 2000 mV. Additional features include temperature, and status of relays, adjustable dual alarm set points, dead band adjustments of 0.01 to 2 pH of the setpoint, and menu-driven program to set up pH or ORP calibration.

The PHCN-961/962 is a basic pH or ORP controller, it includes a NEMA 4X (IP65) enclosure, digital display, two separate setpoints for high and low alarms, adjust dead bands, three 1 A SSRs. Accepts one pH or ORP electrode input through supplied pH transmitter.

### Specifications

- pH Range:** -2.00 to 16.00 pH
- pH Resolution:** 0.01 pH
- pH Accuracy:** ±0.01 pH
- mV Range:** -1999 to 1999 mV
- mV Resolution:** 1 mV
- mV Accuracy:** ±1 mV
- Temperature Range:** -9.9 to 130°C
- Temperature Resolution:** 0.1°
- Temperature Accuracy:** ±0.5°C
- Temperature Sensor:** 1000 Ω Pt RTD
- Temperature Compensation:** Automatic with ±10°C offset adjustment or manual
- Cleaning/Recalibration Notification:** Programmable from 1 to 999 hours
- pH Deadband Adjust:** 0.01 to 2 pH
- ORP Deadband Adjust:** 1 to 200 mV
- Relay Output:** Three SPST relays, rated 250V @ 1 A
- Analog Output:** 0 to 20 mA/4 to 20 mA isolated current output
- Signal Output Load:** 600 Ω
- pH/ORP Input:** BNC connector
- Input Impedance:** 10<sup>13</sup> Ω
- Communications:** RS485 client program
- Power:** 110 or 220 Vac, 50 or 60 Hz
- Display:** 4-digit LCD, 13.7 mm (0.54"); blue backlit
- Operating Ambient:** -10 to 50°C (14 to 122°F); 10 to 95% RH, non-condensing



PHCN-961, shown smaller than actual size.

### Dimensions:

**PHCN-961 Panel Mount:** 108 H x 100 W x 148 mm D (4.25 x 3.93 x 5.82")

**PHCN-962 Wall Mount:** 213 H x 185 W x 113 mm D (8.39 x 7.28 x 4.45")

**Panel Cutout, PHCN-961:** 93.5 mm<sup>2</sup> (3.68 in<sup>2</sup>)

### To Order

Model No.	Description
PHCN-961	Panel mount pH controller
PHCN-962	Wall mount pH controller

### Accessories

Model No.	Description
PHE-7351-15	Industrial pH electrode for in-line or submersible (does not require mounting assembly)
PHE-6510	Submersible pH electrode
ORE-6510	ORP submersible electrode
PHEH-65-10	Mounting assembly for ORE-6510 and PHE-6510 (Required)
PHA-4	Buffer solution, pH 4.00, 500 mL (1 pt) bottle
PHA-7	Buffer solution, pH 7.00, 500 mL (1 pt) bottle
PHA-10	Buffer solution, pH 10.00, 500 mL (1 pt) bottle

Comes complete with operator's manual.

**Ordering Example:** PHCN-961, panel mount pH controller, PHE-6510, pH electrode, PHEH-65-10, mounting assembly, PHA-4, buffer 4, PHA-7, buffer 7.