



INDUSTRIAL pH INSTRUMENTATION & ELECTRODES

Industrial pH/ORP Controller/Recorders With Integral 30 Day Chart Recorder



PHCN-45 shown smaller than actual size.

PHCN-45



- ✓ Combines pH Measurement, Recording, and Controlling in One Unit
- ✓ High Visibility 150 mm (6") Mirrored Analog Display
- ✓ Built-in 30 Day Chart Recorder
- ✓ High and Low Setpoints and Alarms
- ✓ Time Delay Safety Feature
- ✓ On/Off Control

PHCN-45

The PHCN-45 combines pH/ORP measurement, recording and control in a single compact unit. pH and millivolt readings are displayed on a 6" mirrored meter and the built-in chart recorder provides a 30 day record. In the standard mode, accuracy is ± 0.1 pH and ± 10 mV. If increased accuracy is required, a 10x scale expansion is provided. Easy to use front panel controls can set both the high and low limits for control to within 0.1 pH and

to activate a visual alarm when limits are exceeded. If desired, an adjustable Time Delay Safety Feature will shut off power to the output if the pH does not return to the control point within set time (0 to 30 minutes). This can prevent over addition of neutralizing chemicals due to probe or meter malfunction. A pulsed 5 Vdc alarm output is available to drive a dc solid state relay to indicate this condition.

Specifications

Input Parameters: pH, ORP
Display: 150 mm (6") analog meter and recorder
Inputs: PHCN-45, 47: 1; PHCN-48: 2
Standard Ranges: 0 to 14 pH; ± 900 mV
Expanded Ranges: 1.4 pH; ± 90 mV
Accuracy, pH: ± 0.1 pH, ± 0.01 pH expanded

Accuracy, ORP: ± 10 mV, ± 1 mV expanded
Temperature: 0 to 100°C, manual
Output Control: Two separate 4 A SSRs
Time Delay: 0 to 30 minimum
Recorder: 30 day chart
Power Consumption: 55 W @ 115/230V (maximum)
Alarm Signal Output: 3.5V p-p (Squarewave), 20mA
Housing:
PHCN-45: Benchtop
PHCN-47/48: NEMA 12 wall mount
Dimensions:
PHCN-45: 203 H x 356 W x 279 mm D (8 x 14 x 11")
PHCN-47/48: 305 H x 356 W x 152 mm D (12 x 14 x 6")
Weight:
PHCN-45: 10.9 kg (24 lb)
PHCN-47/48: 9 kg (16 lb)



PHCN-48

PHCN-48

The PHCN-48 is similar to the PHCN-47 with the addition of a second electrode input that allows the user to connect one electrode to the meter/controller and the other to the recorder so that real-time monitoring of the control system is possible. In typical applications, the first electrode is placed in the input water flow where it senses pH and activates the control system. The second electrode, located downstream, drives the recorder to provide a continuous record of the pH of the effluent from the control system.



PHCN-48 shown smaller than actual size.

PHCN-47

PHCN-47

The PHCN-47 is a single electrode input model that combines the same functions as the PHCN-45 in a NEMA 12 type cabinet that may be used in a harsh environment.



PHCN-47 shown smaller than actual size.

To Order

Model No.	Description
PHCN-45	Benchtop pH controller/recorder
PHCN-47	Wall mounted pH controller/recorder
PHCN-48	Wall mounted pH controller/recorder with separate inputs for control and recording

Accessories

Model No.	Description
SL-652	Chart paper, 40 division
PHE-5311-10	In-line disposable electrode
PHE-6351-10	Submersible electrode
PHCN-45-CHART-0-14	0 to 14 scale paper

Comes complete with operator's manual.

Electrodes sold separately.

Ordering Examples: PHCN-47, wall-mounted pH controller/recorder, PHCN-45-CHART-0-14, 0 to 14 range paper, and PHE-6351-10 submersible electrode.

PHCN-45, bench top pH controller/recorder, PHCN-45-CHART-0-14, 0 to 14 range paper, and PHE-6351-10 submersible electrode.