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, 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.

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
- 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: Dual SPDT (form C)
- Input Impedance: >10¹² Ω
- 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

To Order

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<td>Microprocessor-based pH controller</td>
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<td>ORCN-37</td>
<td>Microprocessor-based ORP controller</td>
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<tr>
<td>OPCN-37</td>
<td>Microprocessor-based selectable pH or ORP controller</td>
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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

D-7 Our Industrial pH Instrumentation and Electrodes product line continues to expand, visit omega.com for new details!