

NEW PRODUCT PREVIEW

HP/HR SERIES ELECTRODES

KEY FEATURES

- Differential-style provides added reading stability in challenging process applications
- Rebuildable design provides extended service life and lower cost of ownership
- NPT Threaded connections on both sides of the electrode
- Integral temperature element for compensated readings
- 15 ft cable standard - extended cable optional
- 0 –14 pH measurement range (consult for 2 < and > 12)
- HP65 / HR65 provide blind 4-20 mA output
- Built-in preamp allows extended transmission range
- –2000 to + 2000 mV ORP Range
- –5 to + 95°C (23 to 203°F) Temperature Limits
- HP60 / HR60 Series feature 5- wire designs = mV output
- HP65 / HR65 Series feature two wire designs = 4-20 mA output

APPLICATIONS

- Process Control
- Industrial and Municipal Water Treatment
- Plating
- Fume Scrubbers
- Power Generation
- Pulp and Paper
- Aquaculture
- Aquatics
- Food and Beverage



PRODUCT DESCRIPTION

The Hayward HP60 and HR60 Series pH and ORP electrodes offer proven differential measurement technology, rebuildable design and easy NPT mounting. Built-in preamps allow the measured signal to be transmitted significantly further than that with passive sensors. These electrodes feature standard 5-wire connectivity, built-in temperature element and a rugged Ryton® body. Match with the Hayward HMC200 multi-parameter controller or most any 5-wire pH/ORP transmitters/controllers.

The Hayward HP65 and HR65 Series pH and ORP electrodes offer a 2-wire blind analogue output signal (4-20 mA), rugged Ryton body, integral temperature sensor and a replaceable salt bridge for unmatched service life in tough applications. Match with the Hayward HMC300 web-enabled controller or wire directly into most PLCs and SCADA systems.

All Hayward pH and ORP electrodes come with a standard 2-year warranty.

HP/HR SERIES ELECTRODES

TECHNICAL INFORMATION

| | |
|---|---|
| Wetted Materials | Ryton (PPS) body, Kynar, Glass, Titanium (ORP), Palladium, Alloy, and Viton |
| Temperature Limits | -5 to + 95°C (23 to 203°F) |
| Maximum Pressure | 100 psig at 150°F (65°C) |
| Maximum Flow Rate | 10 ft (3 meters per second) |
| Automatic Temperature Compensation | PT1000 RTD |
| Sensor Cable* | 15 ft (4.5 m) STD |

*Longer cable lengths available.

| | pH | ORP |
|-------------------------|----------------------|----------------------|
| Measuring Range | 0 – 14 pH | -2000 to +2000 mV |
| Stability | 0.03 pH units / day | 2.0 mV / day |
| Sensitivity | 0.01 pH | 0.1 mV |
| Accuracy | +/- 0.02 pH | +/- 5 mV |
| Cable Conductors | HP60 - 5 HP65 - 2 | HR60 - 5 HR65 - 2 |

CONTROLLERS

| | HMC200 | HMC300 |
|------|--------|--------|
| HP60 | X | |
| HR60 | X | |
| HP65 | | X |
| HR65 | | X |

CALIBRATION SOLUTIONS

| | |
|----------|---------------------|
| HMC4PH4 | pH 4 Buffer 500 mL |
| HMC4PH7 | pH 7 Buffer 500 mL |
| HMC4PH10 | pH 10 Buffer 500 mL |

SALT BRIDGE REPLACEMENT KIT

| | |
|---------|---|
| HAMSBR8 | Replacement Salt bridge and liquid fill solution to rebuild the electrode |
|---------|---|



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