

## Cole-Parmer® Self-Cleaning Flat pH and ORP Electrodes

### No more solid buildups

- Flat surface prevents buildups, while fluid flow cleans surface for longer life
- Use with most meters and controllers—BNC connector and ATC element work with a variety of units
- Double junction for difficult applications
- Choose either CPVC housing or chemical-resistant Ryton® PPS housing



Ryton PPS electrode



#### Specifications

|                                        |                                               |
|----------------------------------------|-----------------------------------------------|
| <b>Thread size:</b> 3/4" NPT(M)        | <b>Cable:</b> 10 ft (3 m), with BNC connector |
| <b>Insertion depth:</b> 1.75" (4.4 cm) | <b>Temperature range:</b>                     |
| <b>Housing length:</b> 6.75" (17.1 cm) | CPVC: 32 to 176°F (0 to 80°C)                 |
| <b>Housing material:</b>               | Ryton PPS: 32 to 212°F (0 to 100°C)           |
| CPVC or Ryton PPS                      | <b>Maximum pressure:</b> 100 psi              |



## Cole-Parmer® pH and ORP Electrodes with Probe Guard

### Reduce bulb damage with probe guard

- Versatile design—threads on both ends for submersion or in-line use
- Double-junction electrodes available; resist contamination from heavy metals, organics, or AgCl reactive compounds



#### Specifications

|                                        |                                                  |
|----------------------------------------|--------------------------------------------------|
| <b>Thread size:</b> 3/4" NPT(M)        | <b>Cable:</b> 10 ft (3 m), with BNC pH connector |
| <b>Insertion depth:</b> 1.75" (4.4 cm) | <b>Temperature range:</b>                        |
| <b>Housing length:</b> 6.75" (17.1 cm) | 32 to 176°F (0 to 80°C)                          |
| <b>Housing material:</b> CPVC          | <b>Maximum pressure:</b> 100 psi                 |

#### pH Electrodes

| ATC element       | ATC connector   | pH electrodes, CPVC housing, 0 to 12 pH |       | pH electrodes, Ryton PPS housing, 0 to 12 pH |       |
|-------------------|-----------------|-----------------------------------------|-------|----------------------------------------------|-------|
|                   |                 | Cat. no.                                | Price | Cat. no.                                     | Price |
| None              | None            | <a href="#">GH-27003-00</a>             |       | <a href="#">GH-27003-20</a>                  |       |
| 100 Ω RTD         | Mini audio plug | <a href="#">GH-27003-02</a>             |       | <a href="#">GH-27003-22</a>                  |       |
| 100 Ω RTD         | Tinned ends     | <a href="#">GH-27003-12</a>             |       | <a href="#">GH-27003-23</a>                  |       |
| 1 kΩ RTD          | Spade lugs      | <a href="#">GH-27003-04</a>             |       | <a href="#">GH-27003-24</a>                  |       |
| 100 kΩ thermistor | 1/4" phone plug | <a href="#">GH-27003-06</a>             |       | <a href="#">GH-27003-26</a>                  |       |
| 3 kΩ Balco        | Spade lugs      | <a href="#">GH-27003-10</a>             |       | <a href="#">GH-27003-30</a>                  |       |

#### ORP Electrodes

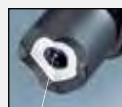
| Housing material | Band type | Catalog number              | Price |
|------------------|-----------|-----------------------------|-------|
| CPVC             | Platinum  | <a href="#">GH-27003-40</a> |       |
| Ryton PPS        | Platinum  | <a href="#">GH-27003-50</a> |       |
| Ryton PPS        | Gold      | <a href="#">GH-27003-60</a> |       |

| ATC element                                                            | ATC connector   | Catalog number              | Price |
|------------------------------------------------------------------------|-----------------|-----------------------------|-------|
| <b>Insertion/submersion, single-junction pH electrodes, 0 to 14 pH</b> |                 |                             |       |
| None                                                                   | None            | <a href="#">GH-05993-10</a> |       |
| 100 Ω RTD                                                              | Mini audio plug | <a href="#">GH-27300-21</a> |       |
| 100 Ω RTD                                                              | Tinned ends     | <a href="#">GH-27300-23</a> |       |
| 1 kΩ RTD                                                               | Spade lugs      | <a href="#">GH-27300-24</a> |       |
| <b>Insertion/submersion, double-junction pH electrodes, 0 to 14 pH</b> |                 |                             |       |
| None                                                                   | None            | <a href="#">GH-27301-20</a> |       |
| 100 Ω RTD                                                              | Mini audio plug | <a href="#">GH-27301-21</a> |       |
| 100 Ω RTD                                                              | Tinned ends     | <a href="#">GH-27301-23</a> |       |
| 1 kΩ RTD                                                               | Spade lugs      | <a href="#">GH-27301-24</a> |       |
| <b>Insertion/submersion, single-junction ORP electrode</b>             |                 |                             |       |
| None                                                                   | None            | <a href="#">GH-27300-19</a> |       |
| <b>Insertion/submersion, double-junction ORP electrode</b>             |                 |                             |       |
| None                                                                   | None            | <a href="#">GH-27301-19</a> |       |

## Cole-Parmer® Semi-Domed Rugged pH Electrodes

### Less chance of breakage

- Don't worry about bulb breakage—unique design helps protect bulbs
- Eliminate electrical noise with graphite-tipped models
- Ideal for viscous or severe applications
- Reduce contamination and clogging with uniform pore size
- Choose chemical-resistant Ryton® PPS or graphite-tipped electrodes



Ryton PPS electrode

Graphite-tipped electrode



#### Specifications

|                                                   |                                                  |
|---------------------------------------------------|--------------------------------------------------|
| <b>Thread size:</b> 3/4" or 1" NPT(M)             | <b>Cable:</b> 10 ft (3 m), with BNC pH connector |
| <b>Insertion depth:</b> 0.9" (2.3 cm)             | <b>Temperature range:</b>                        |
| <b>Housing length:</b> 5.9" (15 cm)               | 32 to 230°F (0 to 110°C)                         |
| <b>Housing material:</b> Ryton PPS or Kynar® PVDF | <b>Maximum pressure:</b> 150 psi                 |

| ATC element                                                | ATC connector   | pH electrodes               |       | pH electrodes with graphite tips |       |
|------------------------------------------------------------|-----------------|-----------------------------|-------|----------------------------------|-------|
|                                                            |                 | Cat. no.                    | Price | Cat. no.                         | Price |
| ¾" NPT(M) threading, hexagonal body, Ryton PPS, 0 to 14 pH |                 |                             |       |                                  |       |
| None                                                       | None            | <a href="#">GH-27020-00</a> |       | <a href="#">GH-27020-40</a>      |       |
| 100 Ω RTD                                                  | Mini audio plug | <a href="#">GH-27020-02</a> |       | <a href="#">GH-27020-42</a>      |       |
| 100 Ω RTD                                                  | Tinned ends     | <a href="#">GH-27020-03</a> |       | <a href="#">GH-27020-43</a>      |       |
| 1 kΩ RTD                                                   | Spade lugs      | <a href="#">GH-27020-06</a> |       | <a href="#">GH-27020-46</a>      |       |
| 1" NPT(M) threading, round body, Kynar® PVDF, 0 to 14 pH   |                 |                             |       |                                  |       |
| None                                                       | None            | <a href="#">GH-27020-20</a> |       | <a href="#">GH-27020-60</a>      |       |
| 100 Ω RTD                                                  | Mini audio plug | <a href="#">GH-27020-22</a> |       | <a href="#">GH-27020-62</a>      |       |
| 100 Ω RTD                                                  | Tinned ends     | <a href="#">GH-27020-23</a> |       | <a href="#">GH-27020-63</a>      |       |
| 1 kΩ RTD                                                   | Spade lugs      | <a href="#">GH-27020-26</a> |       | <a href="#">GH-27020-66</a>      |       |