

Rhyton body pH combination electrode

Pin Connections with Eutech alpha controllers

| | | Eutech Alpha pH 200 | Eutech Alpha pH 500 | Eutech Alpha pH 550 / 560 | Eutech Alpha pH 800 | Eutech Alpha pH 1000 | Eutech Alpha pH 2000P | Eutech Alpha pH 2000W |
|---|---------------|---------------------------|---------------------------|------------------------------------|---------------------------|----------------------------|--------------------------------|--------------------------------|
| Electrode Model | Color Code | Pin No. | Pin No. | Pin No. | Pin No. | Pin No. | Pin No. | Pin No. |
| EC100GTSO05B (with Pt 100 ATC & potential matching pin PMP) | White | 14 | 5 | 5 | 18 | 18 | 25 | 25 |
| | Black | 13 | 6 | 6 | 19 | 19 | 26 | 26 |
| | Red | 15 | 7 | 7 | 20 | 20 | 24 | 24 |
| | Blue | 4 | 8 | 8 | 21 | 21 | 27 | 27 |

Handling

Rinse electrodes with distilled water before and after measuring a sample. Blot the end of the electrode with lint-free paper to remove excess water. **NOTE:** Never wipe the electrode to remove excess water - wiping can create static charges that interfere with correct pH measurement.

Conditioning

pH electrodes are shipped with the electrodes moist. Remove the protective cap or rubber boot from the bottom of the sensor and rinse the electrode with distilled or demonized water.

Place the electrode in a clean container containing one of the liquids i.e. 4.0 M KCl or pH 4.0 buffer or pH 7.0 buffer. Soak electrode for 20 minutes. **NOTE:** Never condition the electrode in distilled water or demonized water - long term exposure to pure water will damage the special glass membrane.

After conditioning the sensor, rinse the electrode with distilled or demonized water. The electrode is ready for calibration and measurement.

Storing

Always keep pH electrode moist. Proper pH electrode storage maximizes electrode performance and extends electrode life. It is best to store electrodes in clean containers filled with pH storage solution. Do not store an electrode in distilled or demonized water - this will cause ions to leach out of the glass bulb and render your electrode useless.

Cleaning

The solution used to clean pH electrode depends on the presence of possible contaminants. Use the guide below to choose the appropriate solution:

- For general cleaning soak the pH electrode in 0.1 M HCl or 0.1 M HNO₃ for 20 minutes
- For removing stubborn deposits and bacteria soak the pH electrode in a 1:10 dilution of household laundry bleach for 10 minutes
- For removal of oil and grease rinse the pH electrode with mild detergent or methanol
- For removal of protein deposits soak the pH electrode in 1% pepsin in 0.1m HCl for 5 minutes

After any of the cleaning procedures, thoroughly rinse the pH electrode with demonized water, drain and refill the reference chamber, and soak the electrode in storage solution for at least an hour. **CAUTION:** Proper eyewear and hand gloves must be used when handling strong chemicals.