Calibrating Electronic Testers, how to

Drs. Foster & Smith Educational Staff

Calibration establishes standardized reference points to help maintain accurate readings when using electronic testers. Calibration is crucial for accuracy, so it is important to calibrate the instrument regularly, especially if a high level of accuracy is required.

preparation

Pour a small amount of the calibration solution into a clean beaker. If possible, use plastic or glass beakers to minimize any electromagnetic interferences. For accurate calibration and to minimize cross-contamination, use two beakers. One should contain Rinse Solution for rinsing the electrode or probe and the other should contain the calibration solution.

procedure

1. **Immerse electrode or probe into the calibration solution of your choice and stir gently.**
2. **Conduct reading, per manufacturer's instructions.**
3. **After reading is stable, confirm/set the calibration.**
4. **Rinse electrode and repeat process to establish the parameters for the electronic tester (low range and the high range).**

*Unauthorized use of any images, thumbnails, illustrations, descriptions, article content, or registered trademarks of **Foster & Smith, Inc.** is strictly prohibited under copyright law. Site content, including photography, descriptions, pricing, promotions, and availability are subject to change without notice. These restrictions are necessary in order to protect not only our copyrighted intellectual property, but also the health of pets, since articles or images that are altered or edited after download could result in misinformation that may harm companion animals, aquatic life, or native species.*

5. Your electronic tester is now calibrated and ready for use.

The calibration of electronic testers will vary slightly from product to product but will rely on the basic principles explained here.

Essentials Make it Simple

Phosphate Photometers

Calibration Solutions

Hanna Instruments Testers

Pinpoint pH Monitor

*Unauthorized use of any images, thumbnails, illustrations, descriptions, article content, or registered trademarks of **Foster & Smith, Inc.** is strictly prohibited under copyright law. Site content, including photography, descriptions, pricing, promotions, and availability are subject to change without notice. These restrictions are necessary in order to protect not only our copyrighted intellectual property, but also the health of pets, since articles or images that are altered or edited after download could result in misinformation that may harm companion animals, aquatic life, or native species.*