

Using eXact® Strip Micro Standard strip test procedure

Used for Acid pH, Total Alkalinity¹, Biguanide, Bromine, Calcium Hardness², Chloride³, Chlorine High Range⁴, Chromium⁵, Copper, Total Hardness High Range⁶, Total Hardness Low Range⁶, Hydrogen Peroxide, Nitrate⁷, Nitrite, Ozone, Peracetic Acid, Permanganate, pH, Phosphate⁸, Quaternary Ammonia Compound QAC, Sulfate
(SEE NEXT PAGE FOR SPECIAL NOTES)



REMOVE STRIP

Remove 1 eXact® Strip Micro (ex. Total Alkalinity) from the bottle before beginning the test. Set the strip in a dry, convenient place and recap the bottle immediately.



TURN METER ON

Press the **ON ZERO** button to power the meter on; the display will show all annunciators, then the current **MENU** selection, followed by the last reading.



SELECT GROUP AND MENU

Press and re-press the **SELECT** button to Select your group. Then, press and re-press the **MENU** button to select the test parameter (see chart on page 4 of your Smart Guide).



RINSE CELL AND FILL WITH SAMPLE

Rinse the **CELL** at least 3 times with the water sample you will be testing (rinsing minimizes the potential for cross-contamination from a previous test). Finally, fill the **CELL** to capacity with the water sample.

 Follow the steps to 'SELECT CUSTOMER' & 'CONNECT DEVICE VIA BLUETOOTH' before proceeding (see page 8).



ZERO METER*

Press the **ON ZERO** button. The cursor will move across the display followed by a display reading of **0.00 PPM**. This indicates the sample is ready for testing.



DIP STRIP & PRESS READ

Dip the required strip into the **CELL**, and immediately press **READ**. This will start a **20 second** countdown timer. During this time, move the strip in a gentle back and forth motion (approx. 2 strokes per second). **Remove and discard the strip after '1' on the display disappears.***



RECORD RESULT & RINSE CELL

The cursor will move across the display while the meter prepares to measure the sample. Record the value displayed for the respective parameter. This value is automatically stored in its **MENU** and if using the eXact iDip® app, the result will be saved in the app's 'RESULTS'. After testing, rinse cell immediately and clean with brush.

*For best accuracy, when testing outdoors in sunlight, place cap over cell cover

eXact® Strip Micro test procedure (SPECIAL NOTES)

¹ **Total Alkalinity** — For water temperatures above 35°C (95°F, hot tubs), remove and discard the strip when the timer displays “10”, countdown continues.

² **Calcium Hardness** — This test is accurate in water with Chloride < 2,000 ppm as NaCl. Chloride levels from 12,000 to 24,000 ppm as NaCl give 10-15% error. For samples with Chloride levels greater than 25,000 ppm as NaCl, contact ITS for a look-up table.

³ **Chloride** — If sample pH is high (>9), adjust pH to 5–6 using Vinegar.

⁴ **High Range Chlorine** — Use a 10 second dip time if water temperature is above 40°C (113°F).
INTERFERENCES: Oxidizers such as Chloramine, Chlorine Dioxide, Bromine, Iodine, Ozone, Bromamines, and Permanganate will give false positive readings.

⁵ **Chromium** — The strip needs to be angled in order to fit in the **CELL** because it is too wide.

⁶ **Total Hardness, HR & LR**— Positive interferences are observed if the test sample contains Barium. Interferences also observed if the test sample contains Copper, Lead, Cobalt, or Nickel. Below 90ppm of Total Hardness HR, false positive results may occur. For Total Hardness HR, Total Alkalinity must be in the range of 65-220ppm (as CaCO₃). ***The pH of the sample for Total Hardness High Range should be between 6.9 and 7.2. If the Total Alkalinity and pH are not in range, they must be adjusted prior to testing the water sample for Total Hardness High.***

⁷ **Nitrate** — **A.** Use this procedure if NaCl is less than 400 ppm. Otherwise, use Nitrate (Salt Water) Procedure on page 26. **B.** The **CELL** needs to be cleaned with brush and distilled water after each test. If any zinc dust is adhering to the **CELL** wall, it will affect results.

⁸ **Phosphate** — **A.** Clean **CELL** with 0.1N HCl, Distilled Vinegar (5%), or Muriatic Acid (diluted 1:40 with H₂O) before testing. **B.** If running multiple tests in a row, using the same water sample, the **CELL** does not have to be rinsed or cleaned with acid between each test. It is recommended that the **CELL** be rinsed three times with the sample water. **C.** The calibration of the meter is based on a water temperature between 15°C (59°F) and 31°C (88°F). If temperature is below 15°C (59°F), your final Phosphate value may read low. This test can also be used for salt water testing.



The eXact® Micro 20 Dual Wavelength Advanced Photometer System is designed for use with the eXact® Strip Micro reagent delivery system. The eXact® Micro 20 Dual Wavelength Photometer is manufactured and tested in an ISO 9001 Facility.