



Operation & Maintenance of Pocket Colorimeter

Low Range Chlorine Residual Measurement

The Pocket Colorimeter measures chlorine residuals from 0.02 – 4.50 mg/L. Tests for residuals ranging from 0.02 – 2.20 mg/L must be done in low range setting. Instructions below apply to low range tests only.



Fill the glass bottle with water to the 10 mL line and cap bottle.



Wipe the bottle and insert into the meter with the diamond facing the keypad. Cover with instrument cap.



Press the ZERO key; screen will illuminate & show "---" then "0.00". If "0.0" appears, switch meter to low range & repeat Step 3.



Remove bottle; add reagent from 1 DPD Free Chlorine foil packet; cap bottle and shake for 20 seconds.



Wipe the bottle and place in the meter with diamond facing the keypad. Cover with instrument cap.



Press READ within 1 minute of adding DPD Free Chlorine reagent. Record results, discard sample, and rinse bottle.

7 Repeat steps 1 to 6 to conduct a Total Chlorine Residual test using reagent from 1 DPD Total Chlorine foil packet. For step 6, **wait 3 to 6 minutes** after adding the reagent before pressing READ. Meter will shut down on its own.

Operation:

- Ensure meter is in low range (LR)
- Ensure DPD packets are not expired
- Use separate bottles for free and total chlorine residual tests; otherwise rinse bottles between tests
- Accuracy is not affected by undissolved powder
- A flashing "2.20" means the test must be done in high range (HR)
- Refer to manual for more detailed instructions

Maintenance:

- Check your meter with Spec Secondary Standards to verify repeatability; readings should fall within the stated tolerance limits to the initial value recorded for that meter
- Clean sample bottles with Hach 88449 HCL 1:1 solution and rinse with deionized water
- Clean the meter with deionized water and a Q-tip or lint free cloth; **do not use alcohol** as it can damage the meter
- Sample bottle must be clean, dry & defect free

To switch between Low Range and High Range:

- Press both the ZERO and READ keys simultaneously
- After one second, release the ZERO key and continue to hold the READ key
- HI or LO will appear on the screen, indicating the range the meter is currently in; repeat process to toggle back and forth