



Operation & Maintenance of Pocket Colorimeter II

Low Range Chlorine Residual Measurement

The Pocket Colorimeter II measures chlorine residuals from 0.02 – 8.00 mg/L. Tests for residuals ranging from 0.02 – 2.20 mg/L must be done in low range. Instructions below apply to low range tests only.



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



2 Press the POWER key; the display screen will illuminate and an arrow should indicate low range (LR).



3 Insert the bottle into the meter with diamond facing the keypad, and cover with instrument cap.



4 Press the ZERO/SCROLL key and the display screen will show “----” then “0.00”. Remove bottle.



5 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 keypad.



6 Cover with instrument cap and press READ/ENTER **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/ENTER.

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 (LR) and High Range (HR):

- Press MENU key; the display will show “SEL”; a flashing arrow indicates current range
- Press READ/ENTER key to toggle between ranges
- Press MENU key again to accept and exit back to the measurement screen