

HACH TEST KITS -58700-00

Low Range and High Range Sampling



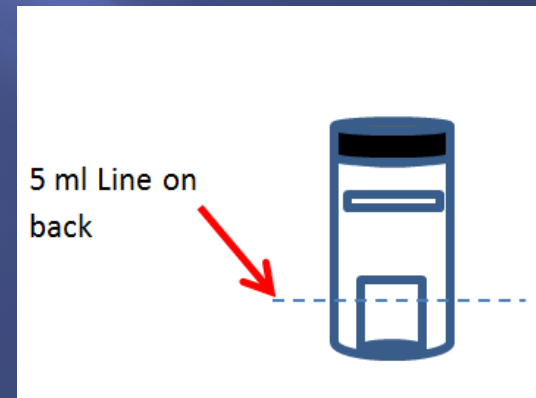
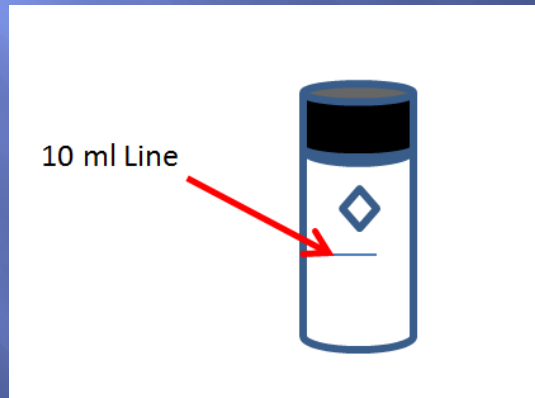
Pocket Colorimeter II

- Pocket Colorimeter II
- 2 - 1 inch round glass sample cell
- 2 - 1 inch round plastic sample cell
- 1 Pack Free Chlorine Reagent
- 1 Pack Total Chlorine Reagent
- Carrying Case and Instructions



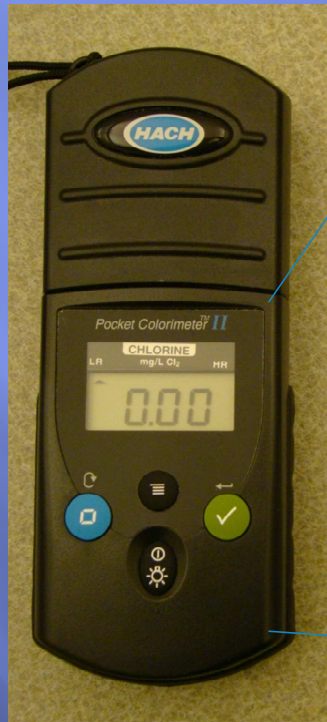
Ranges

- ▣ Low Range (LR)
 - 0.02 to 2.00 mg/L
 - ▣ Flashing value will be 10% over the upper test limit (2.20 mg/L)
- ▣ High Range (HR)
 - 0.1 to 8.0 mg/L
 - ▣ Flashing value will be 10% over the upper test limit (8.8 mg/L)

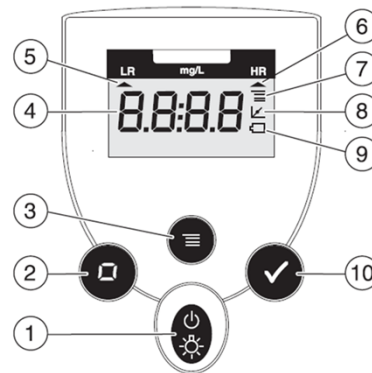


- Switch to high range if you get a blinking 2.20 mg/L value in the display

Display

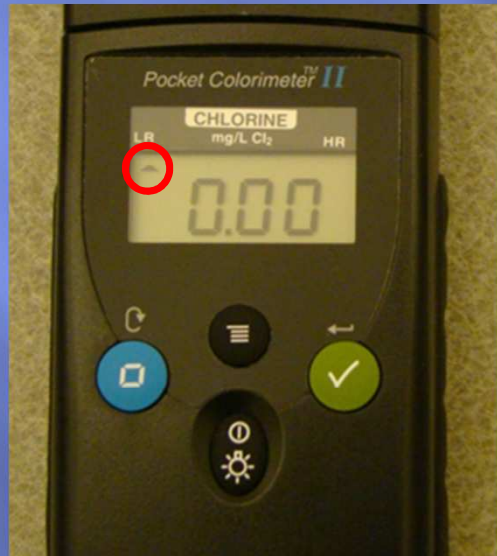


Instrument Keys and Display



| Item | Description |
|------|--------------------------------|
| 1 | POWER/BACKLIGHT Key |
| 2 | ZERO/SCROLL Key |
| 3 | MENU Key |
| 4 | Numeric Display |
| 5 | Range Indicator (Low Range) |
| 6 | Range Indicator (High Range) |
| 7 | Menu Indicator |
| 8 | Calibration Adjusted Indicator |
| 9 | Battery Low Indicator |
| 10 | READ/ENTER Key |

Changing from Low to High and Vice Versa



- ▣ Press the Menu (top black button)
- ▣ Press the Read button (green check button)
- ▣ Press the Menu (top black button) again
- ▣ The arrow indicator should move back and forth under the LR and HR

Pocket Colorimeter II

- ▣ Make sure you are using
 - the correct sampling cell
 - the correct range setting
 - the correct orientation of the sample cell
- ▣ Low Range (Glass Cell)
- ▣ High Range (Plastic Cell)
- ▣ Diamond towards display
- ▣ Bar towards display



Zeroing the Meter

- Before each test, the meter needs to be zeroed with a sample blank
- You can use the sample without reagent to zero the meter
- With the sample cell in the meter and the cover in place, press the zero button (blue button) on the machine.
- The meter should now read 0.00 for low range or 0.0 for high range



Adding Reagent

- ▣ Make sure you are using the correct powder pillows.
- ▣ Each Pillow is marked with the
 - The type (Free or Total)
 - The expiration date.
- ▣ All pillows do have a tear line. (Recommended that scissors be used if available)
- ▣ Be careful and ensure that you do not spill the reagent outside of the sample cell.



After adding reagent

- ▣ Shake the sample for 20 seconds to mix reagent into sample
- ▣ The pink color is a good indicator that chlorine is present.
- ▣ However, even if no visible color forms, a low level may still be indicated by the meter.

Low range
10 mL
sample



High range
5 mL
sample

Reading the Chlorine Residual

- Place the sample cell into the meter and cover
 - For free chlorine, the sample must be read within one minute of adding reagent
 - For total chlorine, the sample must be read between 3 to 6 minutes after adding reagent

Note: The cover must be properly seated when reading the sample



Chlorine Sample Cell Usage Chart

| Meter | Test | Sample Size | Sample Container | Pillow Size | Procedure after addition of reagent | Range |
|-------------------------------|--------------------|-------------|------------------|--------------------|---|--|
| Hach Chlorine 58700-00 | Free (Low Range) | 10 mL | Glass cell | 10 mL | Shake gently for 20 seconds. Measure within one minute | 0.02 – 2.00 mg/l (will max out and flash at 2.20 mg/l) |
| | Total (Low Range) | | | | Shake gently for 20 seconds. Place cell in meter with cap on and wait three to six minutes. | |
| | Free (High Range) | 5 mL | Plastic cell | 2-10 mL or 1-25 mL | Shake gently for 20 seconds. Measure within one minute | 0.1-8.0 mg/l for 2-10 mL 0.1-10.0 mg/l for 1-25 mL |
| | Total (High Range) | | | | Shake gently for 20 seconds. Place cell in meter with cap on and wait three to six minutes. | |

Data Recording

- ▣ Collector's name
- ▣ Date and time of collection
- ▣ Sample location
 - Sample ID number, if available
 - Physical address, if available
 - Coordinates
- ▣ Chlorine residual reading
- ▣ Chlorine residual records must be kept for 10 years