

# High Range COD Photometer

## A-7325

100 to 1,500 & 1,000 to 15,000 PPM (mg/Liter)

### Operating Instructions

1. Follow the CHEMetrics COD Test Procedure (Steps 1-11) which is included in every CHEMetrics COD Test Kit.
2. Press ON/OFF switch.
3. The display will show "Welcome CHEMetrics", then "AUTOBLANK ON HIGH RANGE COD", then it will prompt you to "INSERT BLANK". When it does, wipe the exterior of a digested COD reagent blank vial until it is clean and dry, and then insert it into the sample compartment.
4. The display will show "READING BLANK, PLEASE WAIT", then it will prompt you to "REMOVE BLANK". When it does, remove the digested COD reagent blank vial.
5. After the blank vial is removed, the display will prompt you to "INSERT SAMPLE". When it does, wipe the exterior of a digested COD sample vial until it is clean and dry, and then insert it into the sample compartment.
6. The display will show "READING SAMPLE, PLEASE WAIT".
7. Sample test results will appear in the display as mg/L COD.
8. Record the test result.  
**NOTE:** If 1,000 to 15,000 ppm range COD vials are being used, multiply the displayed result by 10 to get the actual test result.
9. When you remove the sample vial, the display will prompt you to "INSERT SAMPLE". When it does, insert the next digested sample vial in the series or press the ON/OFF switch to turn the instrument off.

### Operating Tips

- Protect photometer from extreme humidity, corrosive fumes and dusty areas. Store in a cool, dry place.
- If the photometer is not expected to be used for periods exceeding 3 months, remove the batteries.
- Battery life may be prolonged by turning photometer OFF after use.
- Photometer must be turned off and back on again for re-zeroing. However, re-zeroing is not necessary when reading a series of samples.
- When moving the photometer from one temperature extreme to another, wait at least 10 minutes before use to allow photometer to come to temperature equilibrium.

### Displays and Troubleshooting

**Battery Low:** Batteries are getting weak and should be replaced.

**Battery Dead:** Batteries are dead and must be replaced.

**Dilute & Retest:** Sample is over-range. Dilute fresh sample with distilled water, re-digest and read. Multiply test result by the dilution factor.

**Below MDL:** Sample concentration is below method detection limit.

### Specifications

**Auto Shut Off:** After 15 minutes of non-use

**Method Detection Limit:** 100 ppm for 0-1,500 ppm range  
1,000 ppm for 0-15,000 ppm range

**Light Source:** 595 nm narrow band light emitting diode

**Operating Temp.:** 0 to 40°C (32 to 104°F)

**Storage Temp.:** -10 to 70°C (14 to 158°F)

**Battery:** 4 x 1.5 V (size AA) alkaline batteries

**Battery Replacement:** Remove cover on bottom of instrument and insert batteries (observe correct polarity as indicated by battery holder).