Usage, Maintenance & Application Of DR890 COLORIMETER





SECTION 1 DESCRIPTION

- Source Lamp: Light Emitting Diode (LED)
- Operating Temperature: 0 to 50 °C
- Battery Power: (4) AA alkaline cells
- Battery Life: 6 months (typical)
- Water proof and sturdy instrument for site utility.



Instrument Check-List

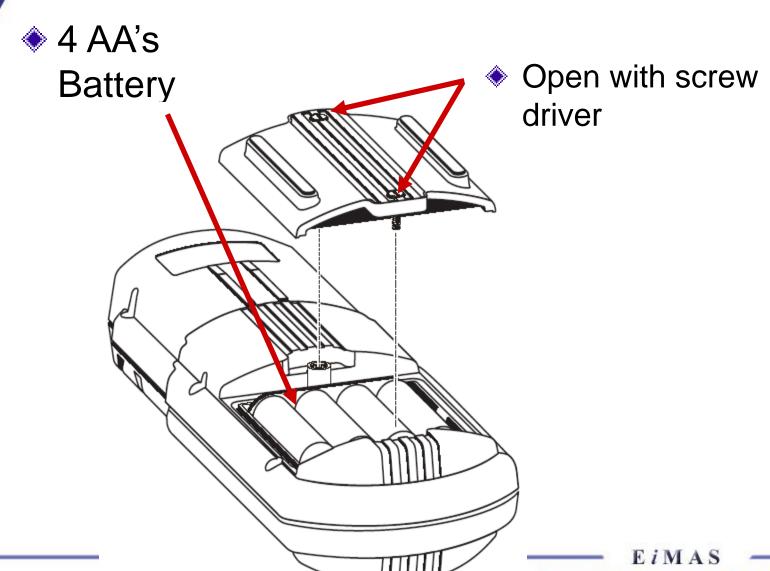
- Sample Cells (2) round, with 10-mL, 20-mL, and 25-mL marks
- COD/TNT Adapter for use with 16-mm vials used in COD and Test 'N Tube methods.
- Batteries (4) AA alkaline
- Documentation package includes Instrument Manual and Procedures Manual.







Battery Installation







Light Shield

Power switch to turn instrument ON/OFF and Exit mode

ENTER key to accept the displayed value

ZERO Key for zeroing BLANK

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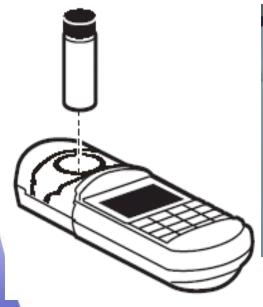
READ key for sample reading



Measurement Notes

Sample Cell Insertion

Wipe the sample cell with a lint-free cloth or tissue and insert the cell into the sample cell compartment with the diamond-shaped marker toward the keypad.









Measurement Notes

Sample Cell Adapter Installation

- Insert the adapter into the cell compartment and rotate until it drops into the alignment slots.
- Finish installation by gently pushing down on the adapter until it snaps into position.





Measurement Notes

Using the Instrument Cap as A Light Shield

The colorimeter cap is removable (by sliding it away from the keypad) to expose the sample cell compartment.

The instrument cap also functions as a light

shield.





Measurements.

- Zero for blank.
- Read for sample.

Results appears in mg/L or other related units.



SECTION 5 MAINTENANCE

Cleaning the Colorimeter

- Use a damp cloth to wipe the outside of the colorimeter enclosure. Wipe up spills promptly.
- Use cotton swabs to clean and dry the sample compartment if any spillage occurs.
- Keep the colorimeter and sample cells clean at all times.
- Use a lens tissue or a soft, lint-free cloth (that will not leave an oil film) to wipe out the sample cell.



Sampel cells.

Sample Cells

- Clean sample cells with detergent, rinse several times with tap water, and then rinse thoroughly with deionized water.
- Some cells may require acid washing or other special cleaning procedures.
- Rinse sample cells used with organic solvents (chloroform, benzene, toluene, etc.) with acetone before the detergent wash, and again as a final rinse before drying.



Battery.

Battery Replacement

- When the LOW BATTERY icon appears in the display the batteries must be replaced or recharged as soon as possible to ensure proper instrument performance.
- Turn the instrument off before removing the battery compartment door.
- The correct date and time may need to be reentered after battery replacement.



Limit, over range.

Concentration Out of Range

An out-of-range condition is indicated by the illuminated **LIMIT** icon. It means the sample concentration exceeds the range of the programmed calibration.



THANK YOU