

## Data Collection Using TI-83+ and LabPro

### Set Up:

1. Connect an auto ID probe(s) to the LabPro unit.
2. Make sure that the TI-83+ calculator is connected to the LabPro with an appropriate interface cable.
3. Turn on the TI-83+ calculator and LabPro.
4. Load the DataMate program by pressing the **APPS** button. Use the **Scroll** keys to highlight the DataMate program. Press **ENTER** to load the program.
5. Change the Mode from "Time Graph" to "Single Point".
  - a. Press **1** (Setup) on the calculator.
  - b. Using the **Down** Scroll Key select "MODE" then press **ENTER** on the calculator.
  - c. Press **4** (SINGLE POINT) on the calculator.
  - d. Press **1** (OK) on the calculator.

### Data Collection:

1. Clean the tip of the probe with distilled water.
2. Place the probe in the solution to be tested.
3. Wait about 30 seconds for the probe to stabilize.
4. Press **2** (START) on the calculator to begin collecting data. Gently stir the solution with the probe during the 10 seconds of data collection.
5. Record your results.
6. Press **ENTER** to return to the main screen.
7. Repeat steps 4 – 6 for subsequent tests.