1. Press MENU until the controller displays.
2. Press T/mV. The controller displays the actual constant temperature.
3. Press \( \Delta pH \) to change the value of the flashing digit.
4. Press T/mV to advance to the next digit.
5. Repeat steps 3 and 4 until the controller displays the desired value.
6. Press MENU to select the value shown. The unit displays.
   \[ \text{set point} \]
   \[ \text{desired value} \]
7. Press MENU until the controller displays \( \text{CAL} \) or \( \text{CAL2} \).
To Perform Calibration (2-Point Example):
Place your electrode into a 1 pH buffer solution.
1. Press T/mV. The controller displays:
   \[ \text{OK} \quad \text{IN} \quad \text{CAL} \]
2. Press T/mV again. The controller displays the buffer solution’s value. Allow enough time for the electrode to settle.
3. Press T/mV. The controller displays the previous value of \( \text{IN} \).
4. Press T/mV again. The controller displays the buffer solution’s value. Allow enough time for the electrode to settle.
5. Press MENU until the controller displays.
   \[ \text{OK} \quad \text{IN} \quad \text{CAL} \]
   indicating that the value is stored.
6. Rinse the electrode with distilled water and place it into a pH4 or pH10 solution.
7. Press T/mV again. The controller displays the previous value of \( \text{IN} \).
8. Press T/mV again. The controller displays the buffer solution’s value. Allow enough time for the electrode to settle.
9. Press MENU. The controller displays:
   \[ \text{OK} \quad \text{STIFF} \]
   \[ \text{desired value} \]
   \[ \text{desired value} \]
   indicating that the value is stored.
For a 3-point calibration, you follow the same procedure used in 2-point calibration, except you place the electrode into three buffer solutions in this order: pH4, pH7, and then pH10.
10. Press RESET twice. The controller displays:
   and then the current pH value.
   Your controller is now up and running.

For warranty repairs, please contact NEWPORT, and have the following information available before contacting NEWPORT:
1. P.O. number under which the product was PURCHASED.
2. Model number and serial number of the product you are returning.
3. Repair instructions and/or specific problems relative to the product.
   NEWPORT’s policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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TRADEMARK NOTICE:
Using This Quick Start Manual

Use this Quick Start manual to set up your pH Controller and begin operation. Information is provided on how to:

- Mount the controller
- Connect ac Power
- Connect a pH electrode
- Calibrate the controller prior to use

For complete information on this controller, refer to the Operator’s Manual.

Before You Begin

In addition to the meter and the related parts, you will need the following items to set up your meter:

- ac power, as listed on meter’s ID/Power Label
- pH electrode (with BNC input connector)
- \( \frac{1}{4} \)” flat blade screwdriver

Mount the Unit

1. Cut a panel opening using the dimensions shown to the right.
2. Position the unit in the opening, making sure the front bezel gasket is flush to the panel.
3. Slide on mounting bracket to secure.

Connect ac Power

Warning: Do not connect AC power to your device until you have completed all input and output connections. This device must only be installed by a specially trained technician with corresponding qualifications. Failure to follow all instructions and warnings may result in injury!

1. Remove the panel at the back of the unit.
2. Locate the TB1 connector.
3. Insert the correct wire in each terminal as shown in the following figure and tighten the lockdown screws.
4. Tug gently on the wires to verify the connections.

Apply Power

1. Apply ac power to the unit.
   
   The unit initializes, flashing the following messages: RST, PH, INIT. Then a pH value appears.
2. Verify that a value appears. If not:
   - Remove ac power.
   - Verify the TB1 power connections.
   - Check your power source.
   - Apply ac power again.

Connect the pH Electrode

1. Secure the pH electrode to the pH input BNC connector on the back of the controller.
2. If you are using automatic temperature compensation (ATC), connect the RTD as shown below.

   ![Pump Electrode Diagram]

To Select Temperature Compensation Mode:

1. Press MENU. The controller displays:
2. Press \( \triangleleft \) T/mV to display the current setting.
3. Press \( \uparrow \) pH to change to the desired setting.
   - OFF = the controller uses a constant 25ºC for temperature compensation.
   - MANU = the controller uses a manually entered value for temperature compensation.
   - METR = the controller uses the RTD input for automatic temperature compensation.
4. Press MENU to select the temperature compensation setting shown. The controller displays:

To Set The Decimal Point Position:

1. If it’s not already shown, press MENU until the controller displays ECP.
2. Press \( \triangleleft \) T/mV. The controller displays \( R_1 = 2 \) or \( R_1 = 3 \) (2 or 3 point calibration).
3. Press \( \uparrow \) pH to select the desired calibration type.
4. Press \( \triangleleft \) T/mV to display \( R_2 = F \) or \( R_2 = C \) (temperature unit of F or C).
5. Press \( \uparrow \) pH to select the desired temperature unit.
6. Press MENU to select the calibration. The unit displays.

Calibrate the Controller:

1. If it’s not already shown, press MENU until the controller displays P.X.F.
2. Press \( \triangleleft \) T/mV. The controller displays \( R_1 = 2 \) or \( R_1 = 3 \) (2 or 3 point calibration).
3. Press \( \uparrow \) pH to select the desired calibration type.
4. Press \( \triangleleft \) T/mV to display \( R_2 = F \) or \( R_2 = C \) (temperature unit of F or C).
5. Press \( \uparrow \) pH to select the desired temperature unit.
6. Press MENU to select the calibration. The unit displays.

7. Proceed with Calibration depending on Temperature Compensation Setting.
   - If you choose OFF, go to “To Perform Calibration” section.
   - If you choose METR, ensure the RTD is properly connected and go to “To Perform Calibration” section.
   - If you choose MANU, configure temperature as described in the next section.

Notes:
- Dimensions in Millimeters (Inches)
- All dimensions are approximate
- Dimensions may vary slightly
- Dimensions are approximate
- Dimensions may vary slightly
- Dimensions are approximate
- Dimensions may vary slightly