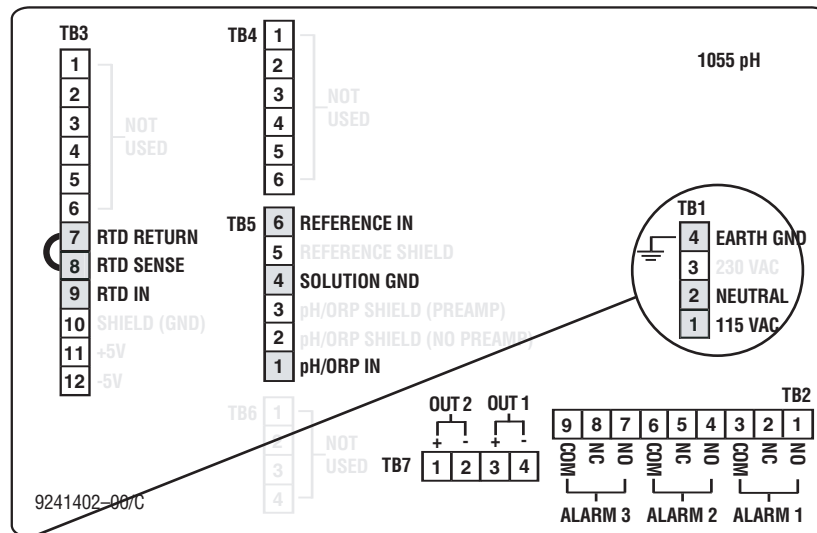




Quick Start Guide 30-A-pH

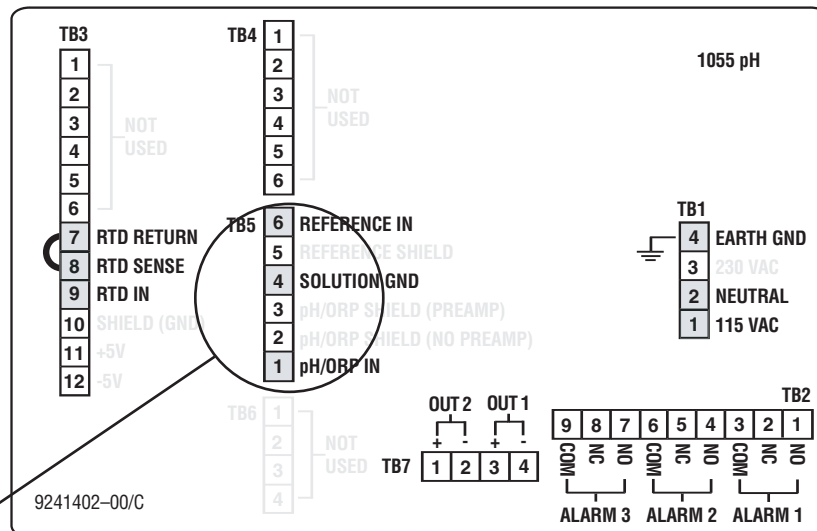
STEP 1: Wire electrode, temperature controller, and power supply to the transmitter.

1. Take the rear cover off of the transmitter by removing the 4 screws with a Phillips screwdriver.



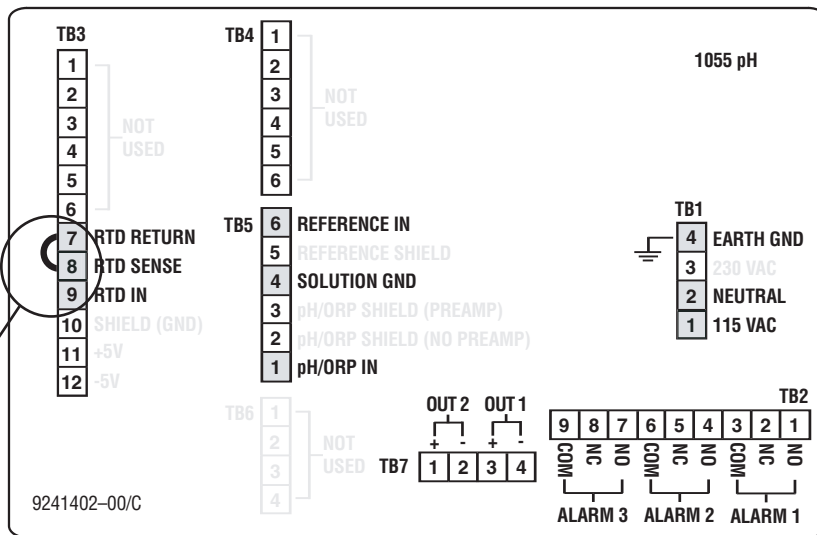
Wiring Connections for Model 30 (Panel Mount with 115/230 Vac Power)

2. Attach the Power Supply Cable: Remove the plastic tag from TB1. Connect the green wire to EARTH GROUND (TB1-4). Connect the white wire to NEUTRAL (TB1-2). Connect the black wire to 115 VAC (TB1-1).



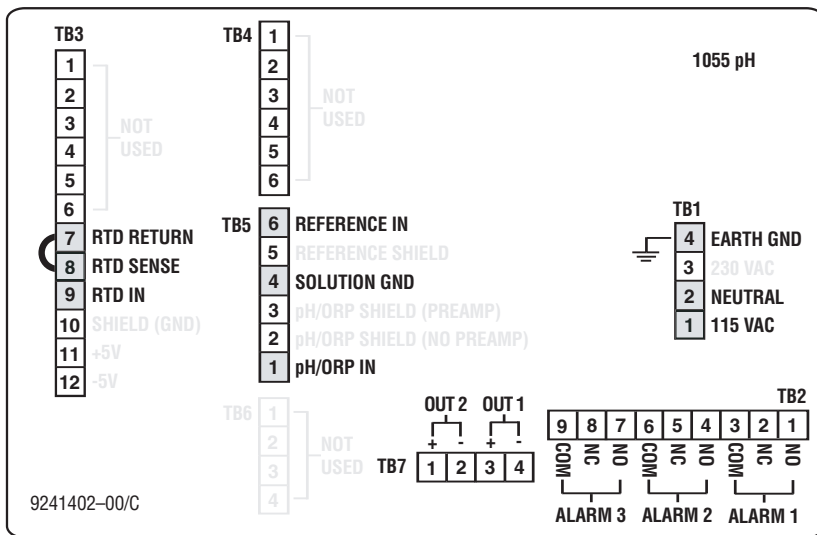
Wiring Connections for Model 30 (Panel Mount with 115/230 Vac Power)

3. Attach the pH Electrode Cable: Connect the black wire (REF) to REFERENCE IN (TB5-6). Connect the green wire (GRND) to SOLUTION GND (TB5-4). Connect the clear wire (pH) to pH/ORP IN (TB5-1).



Wiring Connections for Model 30 (Panel Mount with 115/230 Vac Power)

- Attach the Pt 100(1000) RTD Cable: Connect the clear wire (TC) to RTD RETURN (TB3-7). Connect the black wire (TC) to RTD IN (TB3-9). These wires will join the black “JUMPER” wires already in place (TB3-7 and (TB3-8).



Wiring Connections for Model 30 (Panel Mount with 115/230 Vac Power)

- If you have any questions about wiring please call 1-800-288-2833.
- Once connections are secured and verified, apply power to the transmitter.

STEP 2: Attaching the pH sensor - Configure transmitter for language, sensor and units.

When powered up for the first time, Quick Start screens appear in the transmitter's display. Using Quick Start is easy:

- i. A blinking field shows the position of the cursor.
- ii. Use the ◀ or ▶ key to move the cursor left or right. Use the ▲ or ▼ key to move the cursor up or down or to increase or decrease the value of a digit. Use the ▲ or ▼ key to move the decimal point.
- iii. Use the ▲ key to scroll between display screens, or when a fault is displayed for information about the fault.
- iv. Press ENTER to store a setting. Press EXIT to leave without storing changes. Pressing EXIT also returns the display to the previous screen.
- v. If the power to the transmitter is interrupted, the eeprom battery backup in the instrument will save the last stored configuration.

<pre>English Francais Espanol >></pre>	<p>1. Choose the desired language. Select >> to show more choices. Press ENTER when your language is blinking. These instructions are based on the choice of ENGLISH.</p>
<pre>S1 Measure? pH Redox ORP</pre>	<p>2. Choose pH, Redox, or ORP for Sensor 1. Press ENTER when pH is blinking.</p>
<pre>Temperature in? °C °F</pre>	<p>3. Choose temperature units. Press ENTER when °C is blinking</p>
<pre>x.xx pH xx.x°C xx.x mA</pre>	<p>4a. The analyzer is now set up to run and the pH display appears.</p>
<pre>Fault ^ AL3</pre>	<p>4b. A fault will appear if a temperature controller is not attached to the transmitter. Continue to STEP 3 to select manual temperature.</p>

Also Note:

The outputs and alarms are assigned to default values. To change the settings, refer to Section 5.0, Programming the Analyzer, in the Model 30-A-pH/pH Instruction Manual. To reinstall factory settings and return to Quick Start, see Section 5.10.



STEP 3: Selecting manual temperature - Skip this step if a temperature controller is attached to the transmitter.

```
Calibrate  Hold
Program  Display
```

1. Press MENU for the main menu screen. Choose PROGRAM.

```
Outputs  Alarms
Measurement  >>
```

2. Select >> to show more choices.

```
Temp  Security
      >>
```

3. Press ENTER when TEMP is blinking..

```
Config Temp?
°C  Live/Manual
```

4. To configure the temperature to either live or manual, press ENTER when LIVE/MANUAL is blinking.

```
S1 Temperature?
Live  Manual
```

6. Press ENTER when MANUAL is blinking to progress to the manual calibration screen.

```
Manual Temp?
S1:  +25.0°C
```

7. Change the temperature in the second line to the process temperature, and then press ENTER.

```
Config Temp?
°C  Live/Manual
```

8. To return to the temperature selection screen, press EXIT.

```
Temp  Security
      >>
```

9. To return to the main menu screen, press EXIT again.

```
Calibrate  Hold
Program  Display
```

10. To return to the main display, press EXIT one last time.

```
  x.xx pH
25.0°C  xx.x mA
```

7. The analyzer is now set up to run and the pH display appears.



STEP 4: Calibrating the pH electrode - The electrode and TC must be attached to the transmitter, unless the temperature is set to manual, before beginning this step.

<pre>Calibrate Hold Program Display</pre>	<p>1. Press MENU for the main menu screen. Choose CALIBRATE.</p>
<pre>Cal Sensor1? Measurement Temp</pre>	<p>2. Choose MEASUREMENT.</p>
<pre>S1 Standardize Slope BufferCal</pre>	<p>3. The pH electrode can easily be calibrated in buffers of pH 4 and 7, so choose BUFFERCAL.</p>
<pre>S1 Buffer Cal? Auto Manual</pre>	<p>4. Choose MANUAL to perform the buffer calibrations so that the pH of each buffer can be entered manually.</p>
<pre>S1 Manual Cal? Buffer1 Buffer2</pre>	<p>5. Rinse the pH electrode and temperature controller with water and place them in buffer 1 (pH 4). Be sure that the glass bulb is completely submerged. Press ENTER when BUFFER1 is blinking.</p>
<pre>S1 Live xx.xpH Buf1 04.00pH</pre>	<p>6. The top line shows the actual buffer reading from the pH electrode. Change the pH in the second line to the pH of the buffer solution (4.01pH). Wait until the actual reading is stable and then press ENTER.</p>
<pre>S1 Manual Cal? Buffer1 Buffer2</pre>	<p>7. Rinse the pH electrode and temperature controller with water and place them in buffer 2 (pH 7). Be sure that the glass bulb is completely submerged. Press ENTER when BUFFER2 is blinking.</p>
<pre>S1 Live xx.xpH Buf2 10.00pH</pre>	<p>8. The top line shows the actual buffer reading from the pH electrode. Change the pH in the second line to the pH of the buffer solution (7.00pH). Wait until the actual reading is stable and then press ENTER</p>
<pre>S1 Offset xmV Slope xxmV@25C</pre>	<p>9a. If the calibration was successful, the analyzer will display the offset and the slope (at 25°C). The display will then return to the original calibration screen.</p>
<pre>Calibration Error</pre>	<p>9b. If the calibration was unsuccessful, Calibration Error will appear in the display. The screen will then return to Step 5 above to continue buffer calibration.</p>
<pre>Calibrate Hold Program Display</pre>	<p>10. To return to the main display press EXIT.</p>
<pre>xx.x pH xx.x°C xx.x mA</pre>	<p>11. The analyzer is now set up to run and the pH display appears.</p>