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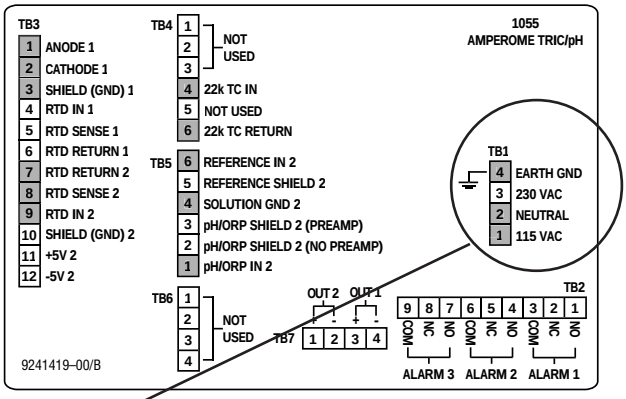
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Find the *Emerson / Rosemount Analytical / Broadley-James 1055-01-10-21-30* at our website: *Click HERE*

Quick Start Guide

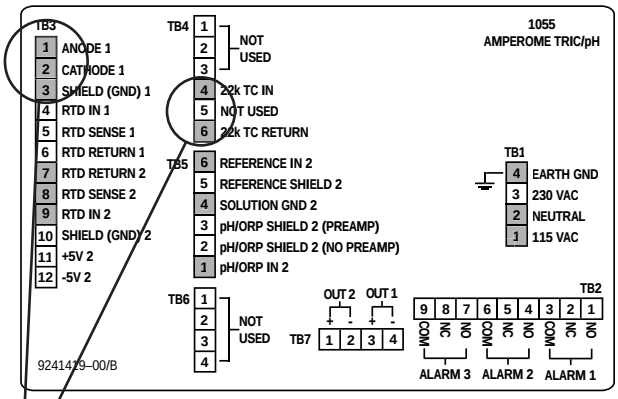
STEP 1: Wire sensor(s) and power supply to the analyzer.

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



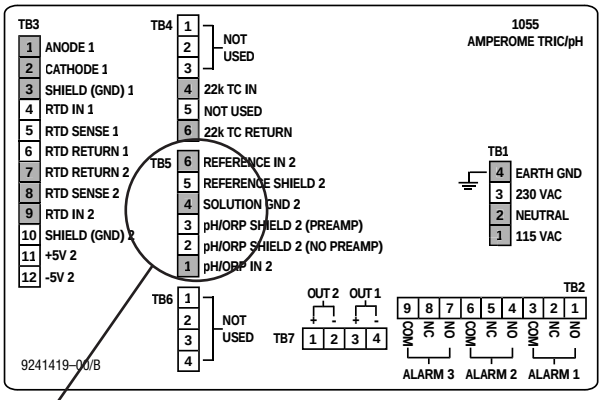
Wiring Connections for Model 30 (Panel Mount with 115/230 Vac Power)

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).



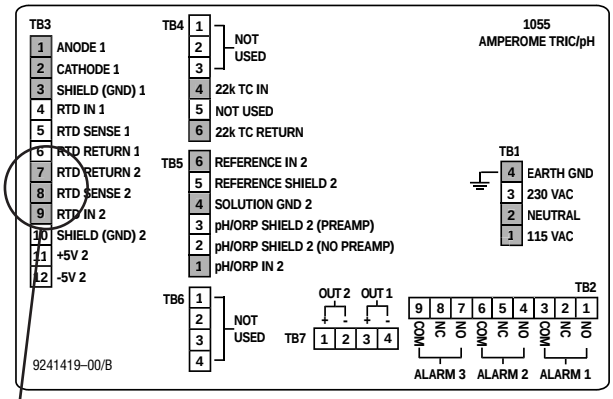
Wiring Connections for Model 30 (Panel Mount with 115/230 Vac Power)

3. Attach the D.O. Sensor Cable: Connect the red wire (ANO) to ANODE 1 (TB3-1). Connect the white wire (CATH) to CATHODE 1 (TB3-2). Connect the green wire (SHLD) to SHIELD 1 (TB3-3). Connect the brown wire (TC) to 22k TC IN (TB4-4). Connect the black wire (TC) to 22k TC RETURN (TB4-6).



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

4. Attach the pH Electrode Cable: Connect the black wire (REF) to REFERENCE IN 2 (TB5-6). Connect the green wire (GRND) to the 1 mΩ resistor (GRND) in SOLUTION GND 2 (TB5-4). Connect the clear wire (pH) to pH/ORP IN 2 (TB5-1).



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

5. Attach the Pt 100(0) RTD Cable: Connect the clear wire (TC) to RTD RETURN 2 (TB3-7). Connect the black wire (TC) to RTD IN 2 (TB3-9). These wires will join the black "JUMPER" wires already in place.

6. Once connections are secured and verified, apply power to the analyzer.

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STEP 2: Attaching two sensors - Configure analyzer for language, sensors and units. (Skip this step if attaching only one sensor to the analyzer.)

When powered up for the first time, Quick Start screens appear in the analyzer'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 analyzer is interrupted, the eeprom battery backup in the instrument will save the last stored configuration.



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.



2. Choose the number of sensors wired to the analyzer. Press ENTER when TWO is blinking. If you only have one sensor connected, goto QUICK START STEP 3 or QUICK START STEP 4.



3. For Sensor 1, which is dedicated to Dissolved Oxygen (D.O.), identify the manufacturer of the sensor, Rosemount Analytical or other. For Broadley-James sensors, choose OTHER.



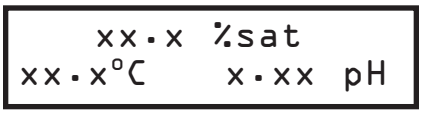
4. Select the desired units for Sensor 1. Press ENTER when %SAT is blinking.



5. Choose pH, Redox, or ORP for Sensor 2. Press ENTER when PH is blinking.



6. Choose temperature units. Press ENTER when °C is blinking



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

Also Note:
The outputs and alarms are assigned to default values. To change settings, refer to Section 5.0, Programming the Analyzer. To reinstall factory settings and return to Quick Start, see Section 5.10.

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STEP 3: Attaching one D.O. sensor - Configure analyzer for language, sensor and units. (Skip this step if attaching a pH sensor to the analyzer.)



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.



2. Choose the number of sensors wired to the analyzer. Press ENTER when ONE is blinking. Choosing One configures the analyzer as a dissolved oxygen analyzer.



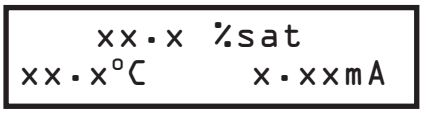
3. For Sensor 1, which is dedicated to Dissolved Oxygen (D.O.), identify the manufacturer of the sensor, Rosemount Analytical or other. For Broadley-James sensors, choose OTHER.



4. Select the desired units for Sensor 1. Press ENTER when %SAT is blinking.



6. Choose temperature units. Press ENTER when °C is blinking



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

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STEP 4: Attaching one pH sensor - Configure analyzer for language, sensor and units.



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.



2. Choose the number of sensors wired to the analyzer. Press ENTER when TWO is blinking. Sensor 1 will be removed from the display after the default display appears.



3. For Sensor 1, which is dedicated to Dissolved Oxygen (D.O.), identify the manufacturer of the sensor, Rosemount Analytical or other. For Broadley-James sensors, choose OTHER.



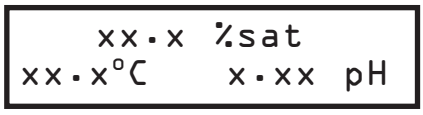
4. Select the desired units for Sensor 1. Press ENTER when %SAT is blinking.



5. Choose pH, Redox, or ORP for Sensor 2. Press ENTER when pH is blinking.



6. Choose temperature units. Press ENTER when °C is blinking



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



8. Press MENU to get the main screen to appear. Press ENTER when DISPLAY is blinking.



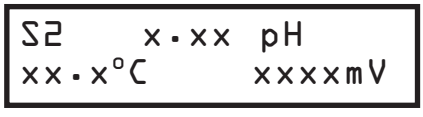
9. Press ENTER when DEFAULT DISPLAY is blinking.



10. Press ▲ 3 times until the display for sensor 2 appears and then press ENTER.



11. Press EXIT 2 times to go back to the main display.



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

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STEP 5: Calibrating two sensors - All sensors and temperature controllers must be attached to the analyzer before beginning this step.



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



2. Choose Sensor1 (D.O.) or Sensor2 (pH). To start with Sensor1, press ENTER when SENSOR1 is blinking.



3. Choose MEASUREMENT.



4. The D.O. sensor can easily be calibrated in air, so choose AIRCAL.



5. There is a pressure sensor inside the analyzer. If the reading is wrong, enter the correct value. Press ENTER when the correct barometric pressure is displayed.



6. The top line shows the current dissolved oxygen reading, while the D.O. sensor measures the concentration of oxygen in the air (this is the full-scale standard). WAIT will blink while the analyzer is gathering its data.



7. This screen will appear when the air calibration is done and the analyzer has stored the current reading to 100% saturation. Press ENTER to continue to the zero calibration.



8. Choose SENSOR1 again.



9. The D.O. can be zeroed by detaching the cable from the sensor. Detach the cable first, then press ENTER when ZERO is blinking. (This can also be accomplished by using oxygen-free nitrogen instead of detaching the cable.)



10. The top line shows the current dissolved oxygen reading. The analyzer is measuring 0% saturation since there is no sensor attached. WAIT will blink while the analyzer is gathering its data.



11. Once the reading is stable, this screen will appear. Sensor zero is complete and the analyzer has stored the current reading as zero. Press ENTER to continue to the next step and then reattach the D.O. sensor.



12. Choose Sensor1 (D.O.) or Sensor2 (pH). To continue with Sensor2, press ENTER when SENSOR2 is blinking.

(continued on the next page)

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STEP 5: (continued)

Cal Sensor2? Measurement Temp	13. Choose MEASUREMENT.
S2 Standardize Slope BufferCal	14. The pH electrode can easily be calibrated in buffers of pH 4 and 7, so choose BUFFERCAL.
S2 Buffer Cal? Auto Manual	15. Choose MANUAL to do the buffer calibrations so that the pH of each buffer can be entered manually.
S2 Manual Cal? Buffer1 Buffer2	16. 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.
S2 Live xx.xpH Buf1 04.00pH	17. 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 (4.00pH). Wait until the actual reading is stable and then press ENTER.
S2 Manual Cal? Buffer1 Buffer2	18. 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.
S2 Live xx.xpH Buf2 10.00pH	19. 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
S2 offset xmV Slope xxmV@25C	20. 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. If the calibration was unsuccessful, Calibration Error will appear.
Calibrate? Sensor1 Sensor2	21. To return to the main menu screen press EXIT.
Calibrate Hold Program Display	22. To return to the main display press EXIT again.
xx.x %sat xx.x°C x.xx pH	23. The analyzer is now set up to run and the main default display appears.

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