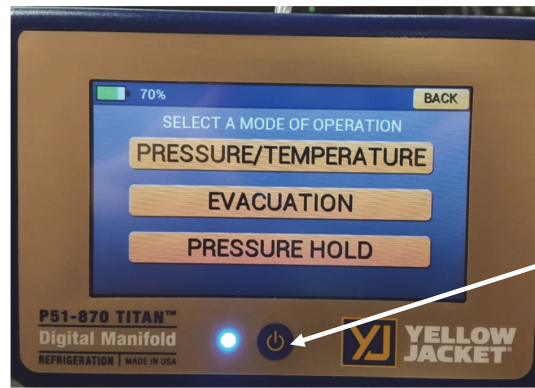




# P51-870 TITAN® Digital Manifold Quick Start Guide

For additional information regarding the P51-870 TITAN™ and ManTooth™ App operation, please see the User Manual and ManTooth Quick Start Guide at [www.yellowjacket.com](http://www.yellowjacket.com).

1



Tap to power unit on

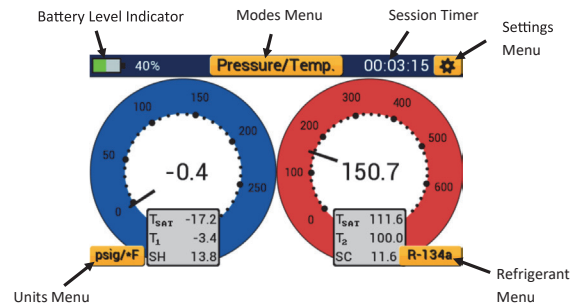
Power the unit on by pressing the power button once. Select the desired mode of operation from the modes menu.

2



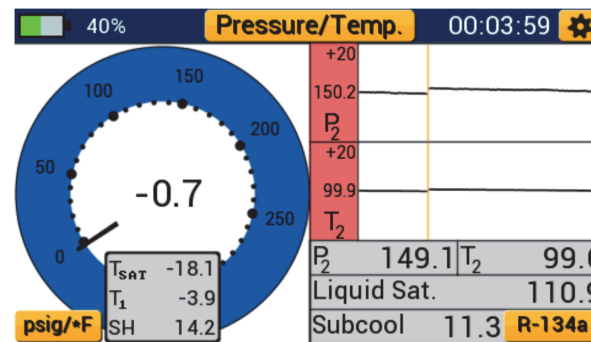
Plug the low side temperature probe into T1 on the back of the device. Plug the high side temperature probe into T2 on the back of the device.

3



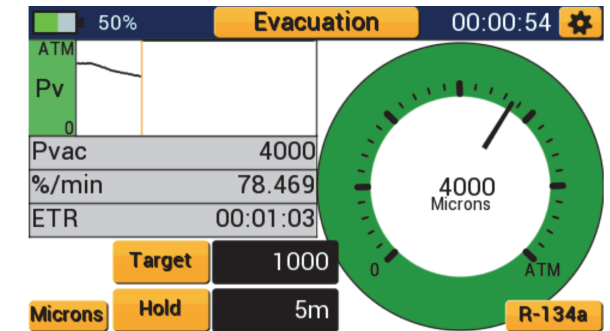
Pressure/Temperature Mode displays system pressure, temperature, saturation temperature, system superheat and subcooling. Settings can be accessed by tapping the settings icon in the upper right corner. The modes menu can be accessed by tapping the button labeled with the name of the current mode at the top of the screen. The units and refrigeration menus can be quickly accessed by tapping the buttons in the lower left and right corners respectively.

4



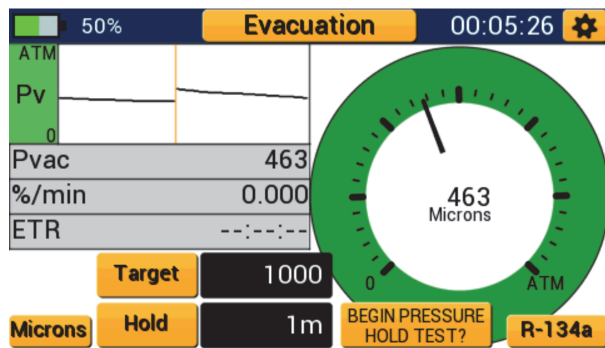
While in Pressure/Temperature mode, tapping the center of either gauge will convert the gauge into a graph. Tap the center of the graph to convert the graph back to a gauge.

5



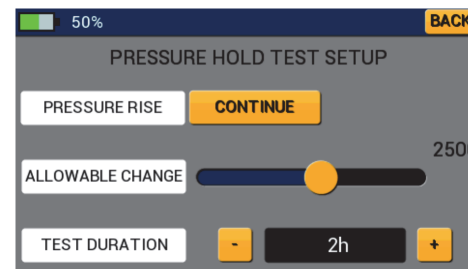
Evacuation Mode displays vacuum pressure as measured by a YJ auxiliary vacuum sensor. Plug the vacuum sensor into either A1 or A2 on the back of the device. Tap Target to set the target evacuation pressure. Tap Hold to set the duration of the vacuum hold timer.

6



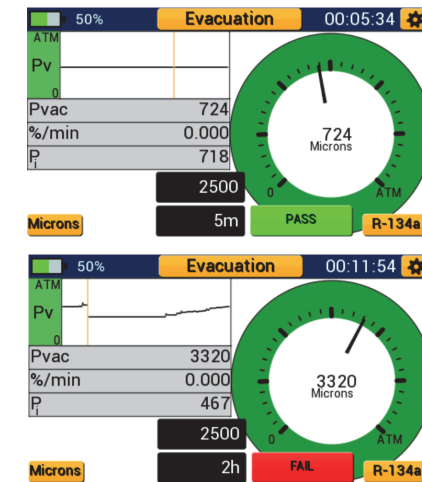
Once the Vacuum Hold timer has depleted, the user is prompted to start a pressure hold test. Tap the button to advance to the pressure hold setup screen.

7



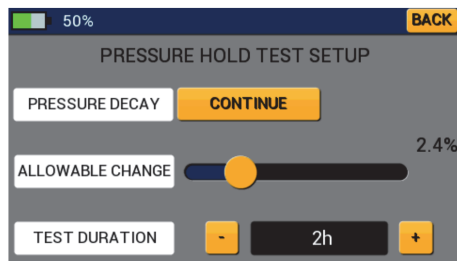
Allowable change is the maximum allowable vacuum pressure the system is allowed to reach before failure. Set the allowable change value by adjusting the slider bar. Adjust the duration of the pressure hold test by tapping the "+" and "-" buttons. When ready to begin the pressure rise test, tap the Continue button next to Pressure Rise.

8



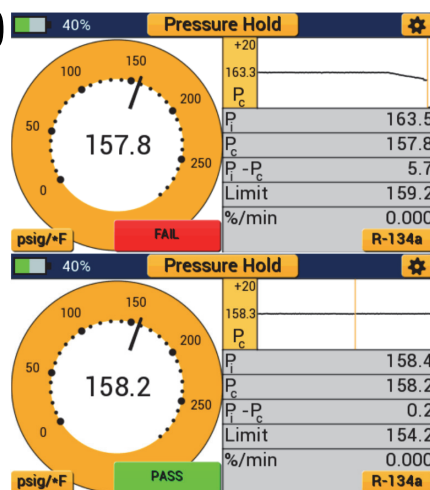
The Pressure Rise test will monitor the current vacuum pressure and the percent change in pressure. The device will prompt the user with a Pass or Fail message depending if the system passes or fails the test respectively.

9



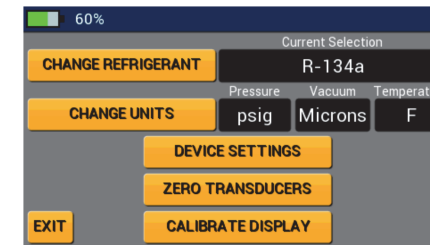
The Pressure Hold mode displays the change in pressure of the system during a standing pressure test. Allowable change is the percentage of the current system pressure the system is allowed to drop before the pressure test is deemed a failure. Set the allowable change percentage by adjusting the slider bar. Adjust the duration of the pressure Decay test by tapping the “+” and “-” buttons. Tap the Continue button next to Pressure Decay to begin the pressure hold test.

10



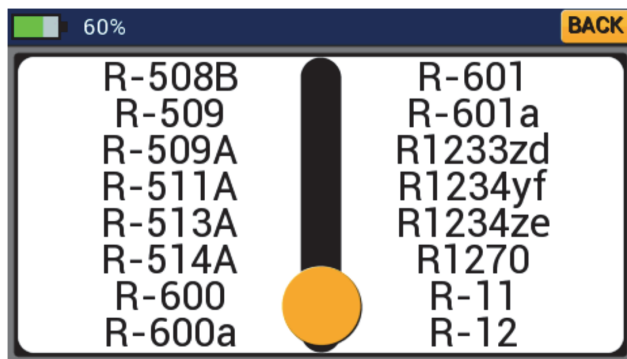
Tap Set Pi to set the initial pressure and begin monitoring for a drop in system pressure. The device will display a Fail or Pass message depending if the system Fails or Passes the pressure Decay respectively.

11



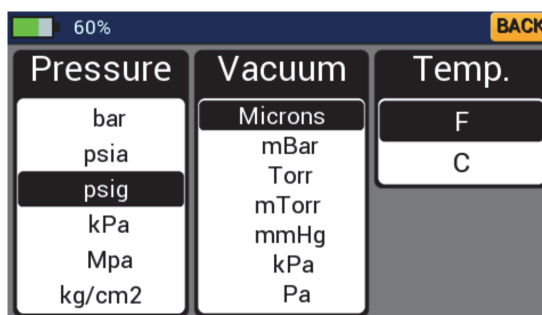
The settings menu allows the user to adjust the selected refrigerant, change selected units, adjust device settings, zero the manifold transducers and calibrate the display. To zero the manifold transducers, tap the zero transducers button. If the zeroing was successful, the button will flash green. If the button flashes red, the manifold is under pressure and must be fully vented to atmosphere. To recalibrate the touch display, press the power button three times in quick succession, then follow the onscreen prompts to complete calibration OR press the calibrate display button.

12



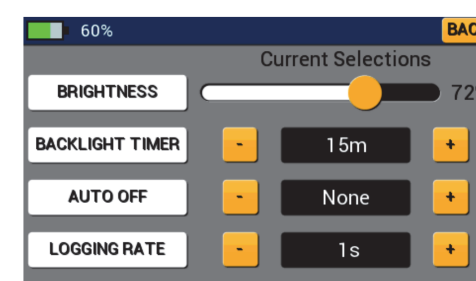
The refrigerant menu allows you quickly select a desired refrigerant. Drag the slider bar to the correct page and tap the refrigerant to select it.

13



The units menu allows the user to quickly select a unit of measure for pressure, vacuum, and temperature. Tap any unit in the menu to select it. Tapping the back button will exit the units menu and save current selections.

14



The device settings menu allows the user to adjust the display brightness, backlight dimmer timer, device auto off timer, and data logging sampling rate. Use the slider bar to adjust the percentage of backlight brightness. Tap the “+” and “-” buttons to adjust the remaining device settings. Tapping the back button will save the current selections and return to the settings menu.

15



ACCESSING DATA LOG FILES- Connect the unit to a PC via the provided USB to micro-USB cable and power the unit on. The P51-870 will open as a removable drive. Data logs can be copied to the PC for editing and storage. To disconnect the device, eject it as you would a removable flash drive.

ERASING DATA LOG FILES- As the device onboard memory nears maximum capacity, the user will be prompted to clear memory on first power up. Selecting yes will remove all data log files from the device.

16

POWER DOWN- Hold the power button for three seconds or until the red LED turns off.

CHARGING- Connect the micro-USB cable to the micro-USB port on the back of the device. Connect the opposite end of the cable to the USB port on a charging brick or computer. The LED will turn solid green when the unit is charging and will turn off when the unit is fully charged.

17



\*\*\*For iOS Users-This device does not require the traditional Bluetooth connection process through the Bluetooth settings utility on your device. Instead, navigate directly to the ManTooth 3.0 app to establish the Bluetooth connection with your P51 manifold.