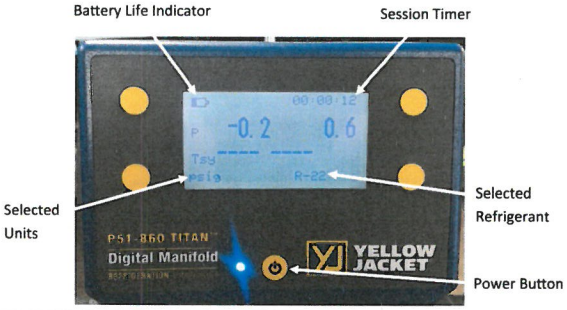
P51-860 TITAN® Digital Manifold

Quick Start Guide

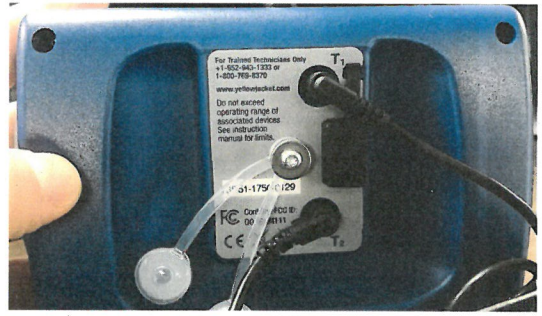
For additional information regarding the P51-860 TITAN™ and ManTooth™ App operation, please see the User Manual and ManTooth Quick Start Guide at www.yellowjacket.com.

1



Power the unit on by pressing the power button once. The unit automatically defaults to Pressure/Temperature mode. This mode displays system pressure and temperature as measured by two auxiliary YJ temp probes.

2



Connect the low side temperature probe to T1 on the back of the device. Connect the high side temperature probe to T2 on the back of the device.

3

While on any modes screen, tap on any of the four buttons next to the screen once to bring up the button webbing; the button webbing will disappear after four seconds with no button press. While in the pressure/temperature mode, use the bottom two buttons to alternate between system temperature, saturation temperature, system superheat and subcooling. Quickly press the power button to toggle the backlight on and off.

4

Modes | Settings

P1 -0.4 P2 152.4

Sh 14.6 Sc 11.5

Tsy | Tsa

While in Pressure/Temperature mode, pressing the bottom two buttons will alternate between various temperatures. System superheat and subcooling shown.

5

▲ | ✔

Pressure/Temperature
Evacuation
Pressure Hold

▼ | ←

While on any modes screen, selecting Modes brings up the Modes menu. While on this screen, use the up, down, and select buttons (displayed as arrows and a check mark respectively) to navigate the Modes menu and select the desired mode of operation.

6

Modes | Settings

Pvac 100000
Target 1000
Hold 5m

Target | Hold

Evacuation mode displays the system vacuum pressure as measured by an axiliary YJ vacuum probe (P/N 67030). Plug the YJ vacuum probe into either a T1 or T2 on the back side of the device. Tap any button to bring up the button webbing. Press Target to set the Target Evacuation pressure. Press Hold to set the duration of the Vacuum Hold Timer. Once Target Evacuation pressure and Hold Timer have been set, begin the evacuation.

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Pvac 409
Target 1000
TARGET reached!
Pressure Hold Test?
No | Yes

▲ | ✔
Session Type Rise
Hold Limit 2500
Hold Time 2h
Continue
▼ | ←

Once the vacuum hold timer has depleted, the user is prompted to begin a pressure hold test. By selecting yes, the user advances to the pressure hold setup menu. Use the button webbing to navigate the pressure hold setup menu and confirm session settings. To monitor a rise in vacuum pressure, ensure session type is set to Rise. Hold Limit sets the maximum vacuum pressure the system will be allowed to reach before failure. Hold time sets the duration of the pressure hold test. Once all settings have been confirmed, select Continue to begin the pressure hold test.

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Modes | Settings

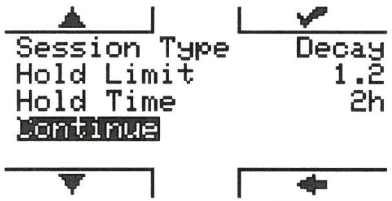
Pc 404

Pi ---- Lim 2500
P/s ----

Set Pi

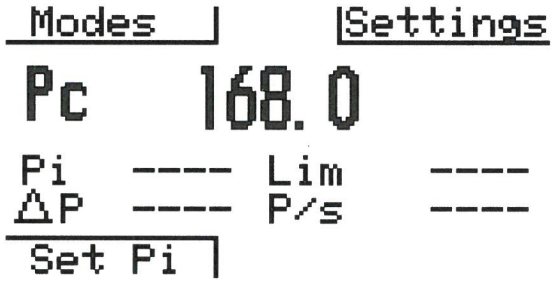
Once you are ready to begin the pressure hold test, bring up the button webbing then press "Set Pi". This will set the current vacuum pressure as the initial system pressure and begin monitoring for a rise in vacuum pressure.

9



Selecting pressure hold from the Modes menu will advance to the pressure hold setup screen. Pressure Hold mode allows the user to monitor either a rise or drop in system pressure over time. Use the button webbing to navigate the pressure hold setup menu and confirm selections. To monitor a drop in system pressure, ensure session type is set to Decay. Hold Limit sets the percentage of the current system pressure the system will be allowed to drop before failure. Hold Time sets the duration of the pressure hold test. Once all settings have been confirmed, select Continue to advance to the pressure hold test.

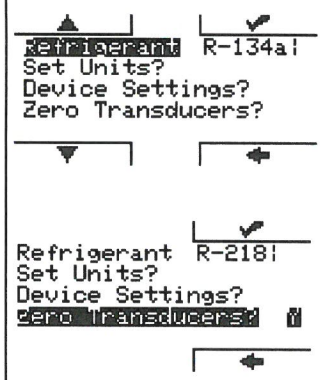
10



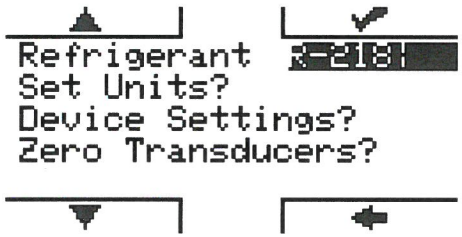
Once you are ready to begin the pressure hold test, bring up the button webbing and press "Set Pi". This will set the current pressure as the initial system pressure and begin monitoring for a decay in pressure.

11

Selecting Settings while on any modes screen brings the user to the Settings Menu. Use the button webbing to navigate the settings menu to adjust refrigerant, units, device settings or to zero manifold transducers. To Zero the manifold transducers, ensure all valves are open and the manifold is vented to atmosphere. Navigate to the Zero Transducers option and press the select button. Confirm the selection by pressing the check mark button one additional time. If the zeroing is successful, the user will be returned to the settings menu. If the manifold is under pressure, an error message will be returned and the transducers will not be zeroed. Selecting Exit will return to previous Modes screen.



12



Selecting refrigerant while in the settings menu allows the user to quick select the system refrigerant. Use the up and down arrows to navigate to the desired refrigerant, holding either button allows the user to fast pass through the menu. Press the select button to confirm the refrigerant selection. Press Exit to return to the settings menu without selecting a new refrigerant.

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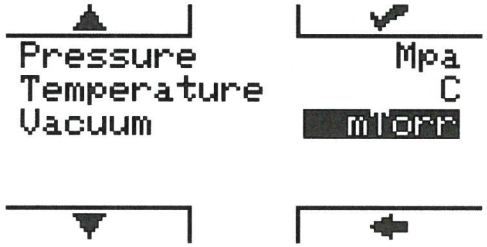

Selecting Set Units while in the Settings Menu will bring the user to the Units menu. Use the button webbing to navigate the units menu and select a unit to be altered. Once selected, use the up and down arrows to select a new units option. Press the select button to confirm selection and return to the units menu. Exit will return without saving the new selection. Press Exit while in the units menu to return to the Settings Menu.

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Selecting Device Settings while in the Settings menu will bring the user to the device settings menu. Use the button webbing to navigate the device settings menu and select a setting to be altered. Once selected, use the up and down arrows to adjust the device settings option. Press select to confirm the new selection and return to the device settings menu. Pressing Exit will return to the device menu without saving the new selection. Pressing Exit while in the device settings menu will return the user to the Settings Menu.

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ACCESSING DATA LOG FILES- Connect the unit to a PC via the provided USB to micro-USB cable and power the unit on. The P51-860 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.

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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.

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Available on the App Store

GET IT ON Google play

***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.