



P51-860 TITAN™ Digital Manifold

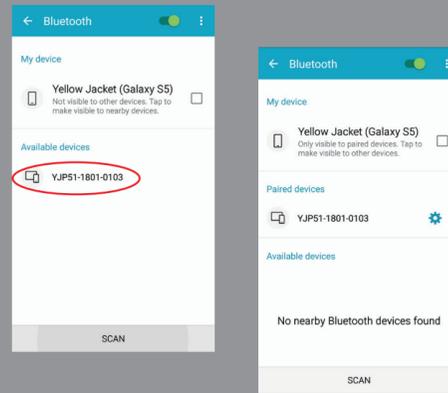
P51-870 TITAN™ Digital Manifold

ManTooth App User Guide
Full Operation Manual at www.yellowjacket.com

OPERATION

Set-Up and General Settings

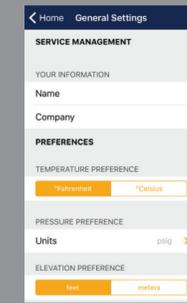
For Android devices, navigate to your smart phone or tablet's "Settings" and click on "Bluetooth". Make sure Bluetooth is turned on and power on your P51 TITAN. Scan for available devices and select the manifold that you wish to pair to. ***Note: The P51 TITAN Bluetooth ID can be found on the back of the manifold and starts with the characters "YJP51". Once successfully paired, the P51 TITAN will appear in the list of paired devices.



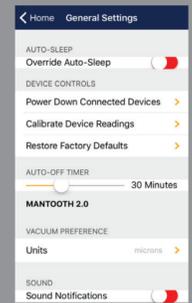
For iOS devices, the Bluetooth connection is made from right within the app. Follow the procedure below and connect to your manifold from the "Assign & Zero" screen.



Navigate to your smart phone or tablet's "App Store" (for iOS) or "Play Store" (for Android). Download, install, and open the ManTooth app. ***Note: make sure you are running app version 3.0 or higher. Select the gear icon to enter the "General Settings" screen.

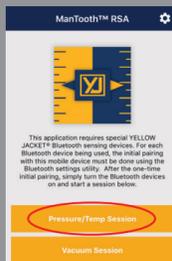


Input the user information, unit of measure preferences, and other general settings.

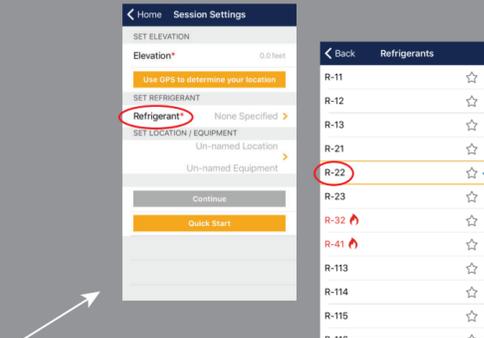


Scroll down to locate and set all of the setting options.

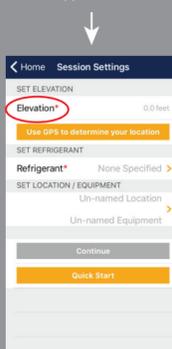
Pressure/Temp Session



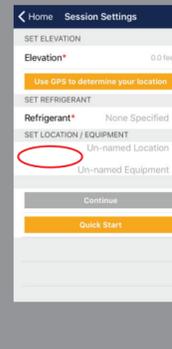
Select "Pressure/Temp Session" from the app home screen.



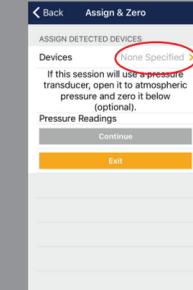
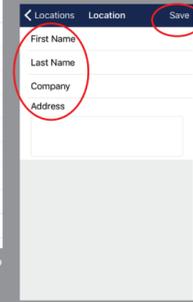
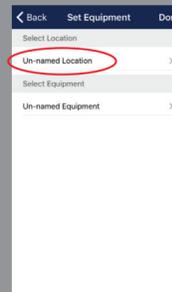
Set the refrigerant. Click on the refrigerant from the list. NOTE: To save a common refrigerant for future use, click on the "star" icon and that refrigerant will move to the top of the list for subsequent sessions.



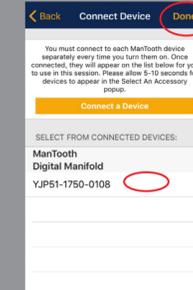
Set the elevation. If the elevation is unknown, click "Use GPS to determine your location."



Set the location and equipment. First, click on the Un-named Location. Then, click on the "+" icon to enter a new location if desired, and enter the location information. Click Save. Repeat this process for the equipment if desired. Click "continue."



Click the "None Specified" to identify the P51-TITAN to communicate with the app.



Select the applicable P51-TITAN from the list and click "Done."



Click "Zero" to zero the pressure readings before connecting to the system. Click "Continue."



The reading screen will appear with "—" for all values. Click on "—" under "LOW PRESSURE."



Assign the P51-TITAN that is connected to the low-side of the system. Repeat this process for the high-side pressure and temperatures.



To assign a superheat target, click on the Superheat Target "—" and assign the values above.

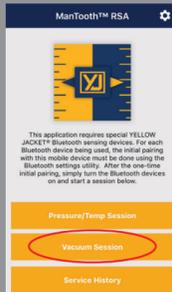


To assign a subcooling target, click on the Subcooling Target "—" and assign the target subcooling values.

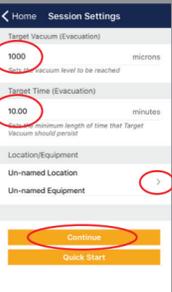


The reading screen will now display all of the assigned values.

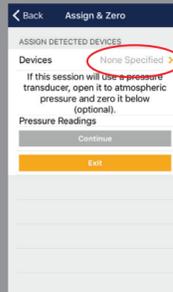
Vacuum Session



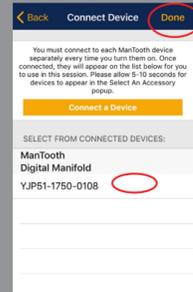
Select "Vacuum Session" from the app home screen.



Set Target Vacuum Level, Target Time for extended pull down, and Location/Equipment information as desired. NOTE: See Pressure/Temp Session above for details on Location/Equipment assignment. Select "Continue."



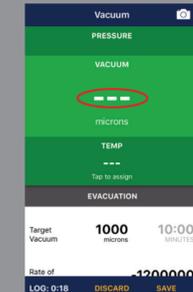
Click "None Specified" to identify the P51-TITAN to communicate with the app.



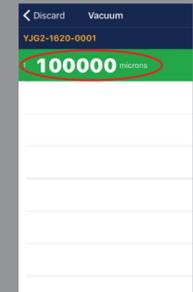
Plug the vacuum gauge into the back of the P51-TITAN (either port). Select the P51-TITAN that is connected to the vacuum gauge and select "Done."



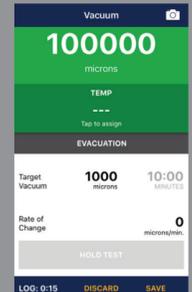
Select "Continue." NOTE: The vacuum gauge must be plugged into the selected P51-TITAN to proceed; otherwise the "Continue" button will not be available.



During the first session, the vacuum gauge will have to be assigned. Click on "—" under "VACUUM."

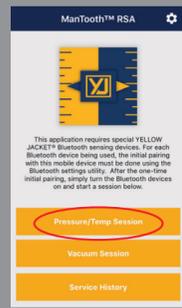


Click on the vacuum reading to assign the vacuum gauge. NOTE: The vacuum gauge will read "100,000 microns" at all vacuum levels above 100,000 microns, including atmospheric pressure.

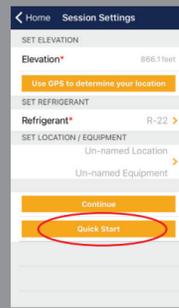


The vacuum level will display on the readings screen and the system evacuation can begin.

Pressure/Temp Session



After the initial set-up sequence, the connections are established to enable fast readings of the system. Select "Pressure/Temp Session."

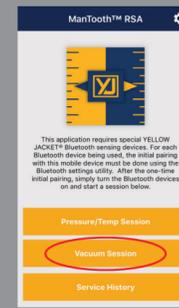


The app will remember the settings from the previous session. Click "Quick Start" to proceed. NOTE: For Android, a screen will appear to "Confirm" devices.

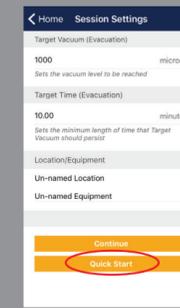


All of the pressures and temperatures will be assigned based on the previous session assignment. Note: The readings can be changed (i.e. switching high side module to low side) by clicking on the respective readings on the screen.

Vacuum Session



After the initial set-up sequence, the connections are established to enable fast readings of the system. Select "Vacuum Session."

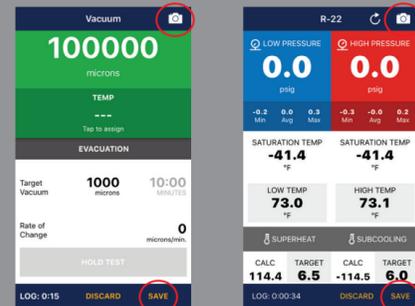


The app will remember the settings from the previous session. Click "Quick Start" to proceed. For Android, a screen will appear to "Confirm" devices.



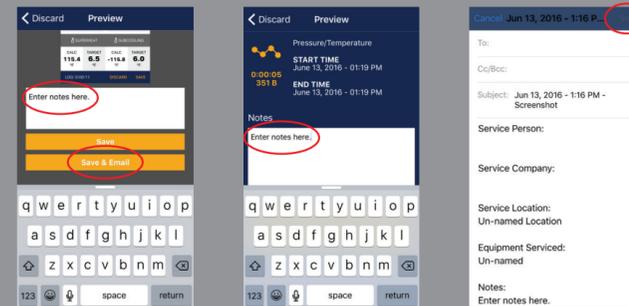
The vacuum reading will be assigned based on the previous session assignment.

Pressure/Temp or Vacuum



Data of the session (data log CSV files or screenshots) are saved and can be sent as a record of service via email. Click the Camera icon to save a screenshot, or click "SAVE" for the data log.

ScreenShot and Data Log



A preview of the screenshot and/or data log is shown where notes can be entered. All of the service data is captured on the email. Click "Send."

