

# P51 TITAN® Series Digital Manifold



# YELLOW JACKET®



## *Accurate measurements, analysis and reporting in your hands, and Bluetooth® capability to put them at your fingertips.*

The YELLOW JACKET® P51 TITAN® Digital Manifold Series provides ultimate system measurements with ease. This 4-valve manifold provides fast and accurate measurements for refrigeration and a/c systems. Measurements are displayed on a backlit digital display and can be transmitted via Bluetooth® to a Smartphone for even further analysis. Local display of system pressures and temperatures, superheat and subcool provide instant analysis. When connected to your Smartphone, target superheat and subcool are easily attained, along with all other capabilities of the YJACK VIEW™ or the ManTooth® app.

The flagship YELLOW JACKET® P51-870 TITAN® features a 4.3" full color touchscreen graphic display with digital and graphical representation of pressure and temperature measurements. It also features on-board data logging and standard vacuum sensor and measurements (vacuum sensor included). A 4-pack of hoses is included as well as two temperature clamps and a backpack carrying case for safe storage.

### **P51-870 TITAN® ADDITIONAL FEATURES AND BENEFITS**

- 4.3" full color, touch screen display
- Digital and graphical representation of pressure and temperature measurements
- Vacuum sensor included
- Set of four manifold hoses included: (3) 1/4" RYB and (1) 3/8" yellow vacuum hose
- (2) temperature clamps included
- Backpack carrying case included

### **P51 TITAN® SERIES FEATURES AND BENEFITS**

- Measures high and low side pressures and temperatures
- Displays vapor and liquid saturation temperatures
- System superheat and subcooling calculations
- On board data logging; export to your computer through USB or to your phone via the YJACK VIEW™ or ManTooth® app
- YJACK VIEW™ app used with 40870, 40875 and 40877; ManTooth® app used with 40860
- Pressure hold mode displays rate of change for both vacuum and positive pressure measurements
- 4-way TITAN® valve block
- 126 refrigerant profiles stored in the instrument including new blends not currently in the REFPROP database
- Backlit display with auto-dimming
- Auto shut-off
- Bluetooth® capability
- Includes two temperature clamps
- Optional vacuum sensor available (included with P51-870)
  - Vacuum measurements, targets and leak testing
  - High and low alarms
- Re-chargeable battery with battery life indicator
  - Continuous use no backlight: 80 hours
  - Continuous use full backlight: 5 hours (40860)  
4 hours (40870)
- US and international units (bar, psia, psig, kPa, MPa, kg/cm<sup>2</sup>)
- Maximum working pressure 700 psia (48.3 bar)
- USB charging port
- IP52 certified
- Robust housing
- Two-year warranty



40870

**40870 INCLUDES:**

- Vacuum sensor (P/N 67030)
- Set of four manifold hoses: (3) 60", 1/4" RYB (P/N 21985) and (1) 60", 3/8" yellow vacuum hose 3/8" straight x 3/8" 45° (P/N 18160)
- (2) Temperature clamps (P/N 67010)
- USB charging cable
- Backpack carrying case (P/N 10146)



40875

**40875 INCLUDES:**

- Vacuum sensor (P/N 67030)
- Set of (6) 60" manifold hoses: (3) RYB compact ball valves (P/N 29985); (1) Y 3/8" str x 3/8" 45° (P/N 18160); (2) compact ball valve 1/4" x 5/16" (P/Ns 29425 and 29465)
- (2) Temperature clamps (P/N 67010)
- USB charging cable
- Backpack carrying case (P/N 10146)



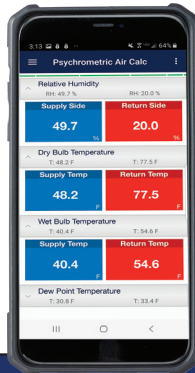
40877

**40877 INCLUDES:**

- Vacuum sensor (P/N 67030)
- Set of (6) 60" manifold hoses: (3) RYB compact ball valves (P/N 29985); (1) Y 3/8" str x 3/8" 45° (P/N 18160); (2) compact ball valve 1/4" x 5/16" (P/Ns 29425 and 29465)
- (2) YJACK™ temperature clamps (P/N 67061)
- USB charging cable
- Backpack carrying case (P/N 10146)

**YJACK VIEW™ APP FEATURES**

- All the great features of the ManTooth® app
- Measure HVAC/R system pressure, temperature, saturation temperature, superheat and subcooling
- Monitor system evacuation status
- Check indoor air comfort and system efficiency with psychrometric air calculations: Percent relative humidity, dry bulb, wet bulb and dew point temperature measurements
- Monitor status of all nearby YJACK™ and P51-870 TITAN® devices
- Customize data view for each measurement
- Freely switch between multiple simultaneous sessions without loss of data
- Create highly customized datalogs to be saved or emailed from your smart device
- Choose from 126 refrigerant profiles found in the REFPROP database
- Available on iOS (version 10 or later) and Android (version 8 or later) smart devices



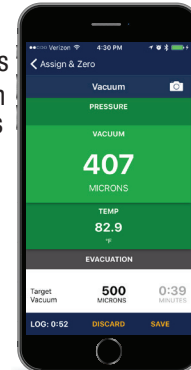
**ManTooth® APP FEATURES**

- Check target superheat and subcool by setting dewpoint and bubble point
- Additional monitoring, data logging and report generation
- Generates datalog file
- Available in English, French, Spanish, Dutch and German
- Data logging to record and document values during servicing
- Improved connectivity and reconnect process if signal is lost
- Ability to download logged data for graphing in Excel
- For iOS and Android devices
- Backwards compatible with existing ManTooth® devices (excluding vacuum gauge)

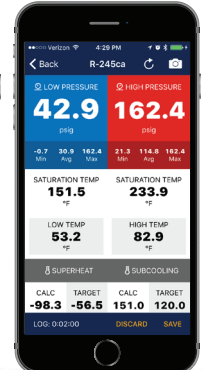


**APPLICATIONS**

- AC&R System Evaluation
- Evacuation
- Charging/Recovery
- Leak Testing



Vacuum Screen



P/T Screen

UPC #	Description
40860	P51-860 TITAN® Digital Manifold
40870	P51-870 TITAN® Digital Manifold
40875	P51-870 TITAN® Digital Manifold with Ball Valve and 5/16" Hoses
40877	P51-870 TITAN® Digital Manifold with Wireless Temperature Clamps, Ball Valve and 5/16" Hoses
UPC #	Optional/Replacement Parts
67030	Vacuum Sensor
10146	Backpack
67010	Temperature Probe Clamp
67061	YJACK™ Temperature Clamp
21990	(3) 60" RYB (Standard Fittings); (1) 60" Y (3/8" str x 3/8" 45° Quick Coupler)
18160	60" Yellow, 3/8" Straight x 3/8" 45°, PLUS II™ "B"
21985	60" 3 pak, Standard Fitting, PLUS II™ 1/4" Hose
29985	60" 3 pak, Compact Ball Valve, PLUS II™ 1/4" Hose
29425	60" Blue, Compact Ball Valve (1/4" x 5/16")
29465	60" Red, Compact Ball Valve (1/4" x 5/16")
67012	P51 TITAN® Replacement Micro-USB Cable



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