# P51 Series
# Digital Manifold

**YELLOW JACKET®**

P51-870

P51-860

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

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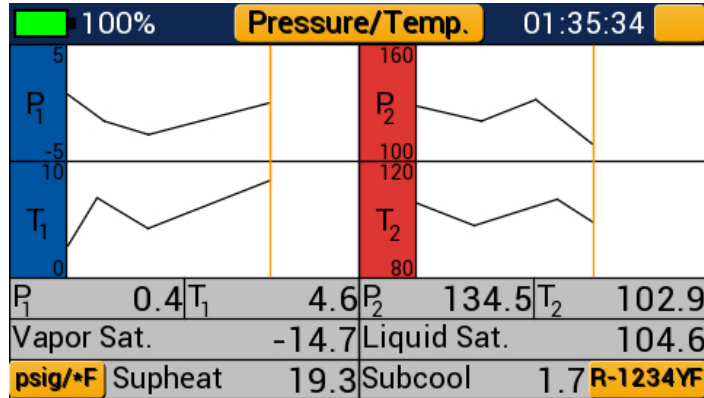
The flagship YELLOW JACKET P51-870 TITAN features a 4.3" full color touchscreen graphic display with digital and graphical representation of pressure and temperature measurements. It also features on-board data logging and standard vacuum sensor and measurements (vacuum sensor included). A 4-pak of hoses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

## FEATURES/ BENEFITS of the P51 TITAN SERIES

- 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 ManTooth app
- 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 on the Refprop database.
- Backlit display with auto-dimming
- Auto shut-off
- Bluetooth capability for use with ManTooth app
- Includes two temperature clamp probes
- 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$^2$)
- Maximum working pressure 700 psia (48.3 bar)
- USB charging port
- IP52 certified
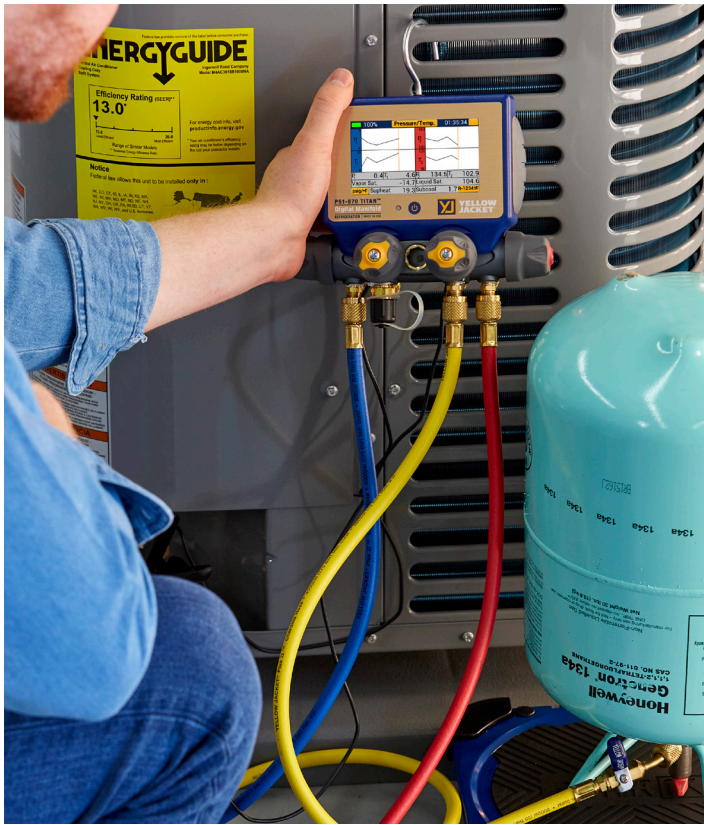- Robust housing
- Two year warranty

## Additional features and benefits of the P51-870 TITAN:

- 4.3" Full color touch screen display
- Digital and graphical representation of pressure and temperature measurements
- Vacuum sensor included
- Set of 4 manifold hoses included
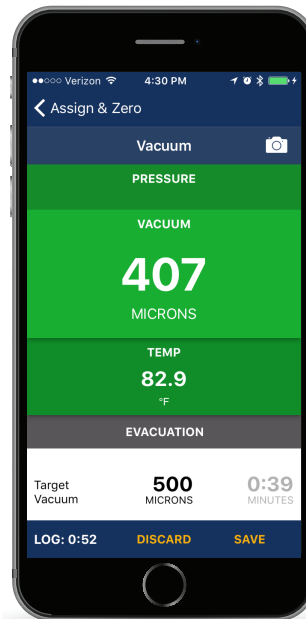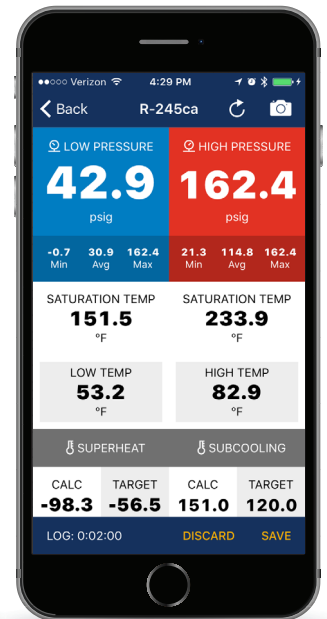- Backpack carrying case included



## 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
- Charging/Recovery
- Evacuation
- Leak Testing




**Vacuum Screen**


**P/T Screen**



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Designed and assembled in the U.S.A

Ritchie Engineering Co., Inc.
YELLOW JACKET Products Division
10950 Hampshire Avenue South
Bloomington, MN 55438-2623 USA
Phone: (800)769-8370 or (952)943-1333
e-mail: custserv@yellowjacket.com
www.yellowjacket.com

| UPC # | Description |
|---|---|
| 40860 | P51-860 TITAN™ Digital Manifold |
| 40870 | P51-870 TITAN™ Digital Manifold |
| UPC # | Optional/Replacement Parts |
| 67030 | Vacuum Sensor |
| 10146 | Backpack |
| 67010 | Temperature Probe |
| 21990 | (3) 60" RYB (Standard Fittings); (1) 60" Y (3/8" str x 3/8" 45° Quick Coupler) |