



SMARTeCH[®]

Wireless Digital Manifold

Isn't it time to give your brain a rest?
 Work smarter with Uniweld's SmartTech
 Wireless Digital Manifold...
Unexpectedly More!



**EXCLUSIVE
SMART
CHARGE
ZONE™**
 (SEE BACK
 FOR DETAILS)

**Ball Valve
Vacuum Rated
to 20 Microns!**
 Specifically designed
 for the HVAC/R
 industry to
 hold Vacuum
 and Pressure.



Smartphone pictured not included

For more information
 about the amazing
 Wireless Smartech™
 Manifold Please
 Scan QR code with
 Smart Phone
 or visit us at
www.uniweld.com



**Part#
USMAN145**



SMARTTECH[®]

Wireless Digital Manifold

FEATURES

Measures High and Low Side Pressure and Temperature
 SmartTech™ App (Free Download) for compatible iOS and Android smart devices*
 Superheat and Subcool Automatically calculated in real time by the SmartTech™ App
 Smart Charge Zone™ - Color coded differential for accurate "In the Zone" system charge
 Wirelessly connects to BLE or Bluetooth® 4.0 compatible smart device.
 Export a SmartTech™ Verified Report and email system performance data as a PDF or CSV file
 Protective Rubber Boot and easy access double zipper padded case with storage pockets
 111 NIST Refrigerant Profiles included; SmartTech™ App upgradeable with free updates

R-11, R-12, R-13, R-21, R-22, R-23, R-32, R-41, R-113, R-114, R-115, R-116, R-123, R-124, R-125, R-134a, R-141B, R-142B, R-143A, R-152A, R-218, R-227ea, R-236ea, R-236fa, R-245ca, R-290, R-365MFC, R-401A (MP39), R-401B, R-401C, R-402A, R-402B, R-403A, R-403B, R-404A, R-405A, R-406A, R-407A, R-407B, R-407C, R-407D, R-407E, R-407F, R-408A, R-409A, R-409B, R-410A, R-410B, R-411A, R-411B, R-412A, R-413A, R-414A, R-414B (Hotshot), R-415A, R-415B, R-416A, R-417A, R-418A, R-419A, R-420A, R-421A, R-421B, R-422A, R-422B (NU22B), R-422C (Oneshot), R-422D, R-423A, R-424A, R-425A, R-426A, R-427A, R-428A, R-429A, R-430A, R-431A, R-432A, R-433A, R-434A (RS-45), R-435A, R-436A, R-436B, R-437A, R-438A (MO99), R-441A, R-442A, R-443A, R-444A, R-453A, R-458A, R-500, R-501, R-502, R-503, R-504, R-507A, R-508A, R-508B (Suva95), R-509A, R-510A, R-512A, R-600, R-600A, R-601, R-601A, R-717, R-744, R-1234YF, R-1234ZE, R-1270, R-E170

SPECIFICATIONS

Pressure Measuring Range: -29.9 to 0 to 650 psig
Pressure Reading: psig, bar, kPa, Kg/cm²
Pressure Resolution: 0.1 psig, 0.01 bar, 0.01 kPa, 0.01 Kg/cm², 0.1 inHg
Pressure Accuracy: inHg: -29.9 to 0, ±2
 PSIG: 0 to 200, ±1; 200 to 650 ± (0.3% reading + 1)
 BAR: 0 to 13.79, ± 0.07; 13.79 to 44.82, ± (0.3% reading + 0.07)
 kPa: 0 to 1379, ±7; 1379 to 4482, ± (0.3% reading + 7)
 Kg/cm²: 0 to 14.06, ± 0.07; 14.06 to 45.71, ± (0.3% reading + 0.07)
Proof Pressure: Pressure w/o internal damage 800 psig
Burst Pressure: Pressure w/o loss of seal 2000 psig
Pressure Zeroing: Reset Pressure & Temperature Sensors to Factory Default
Temperature Clamps: K-Type Thermocouple with 6 ft. lead
Temperature Sensor Range: -40 °F to 266 °F (-40 °C to 130 °C)
Temperature Accuracy: ± 2 °F, ± 1 °C
Temperature Resolution: 0.1 °F or °C
Elevation Compensation: Enter elevation into app for automatic P/T compensation
Batteries: 6 x AA
Battery Life: 150 hours without backlight and wireless
Auto Power Off: Settings; 30 Min., 60 Min., 120 Min. or Manual On/Off (60 Min.)
Screen Display: LCD with On/Off Display Backlight

SMART CHARGE ZONE™

Color coded differential for accurate "In the Zone" system charge.

SUBCOOLING (TXV)

TARGET 10.0 °F
 ACTUAL 14.6 °F
 DIFF. 4.6 °F

RED ZONE

System is over charged with refrigerant and requires removal of excess refrigerant

SUBCOOLING (TXV)

TARGET 10.0 °F
 ACTUAL 10.3 °F
 DIFF. 0.3 °F

GREEN ZONE

System is properly charged for maximum efficiency and optimal performance

SUBCOOLING (TXV)

TARGET 10.0 °F
 ACTUAL 4.2 °F
 DIFF. 5.8 °F

BLUE ZONE

System is under charged and requires additional refrigerant



Smartphone pictured not included

* Compatible with iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 4, iPhone 4s, iPad Air 2, iPad Air, iPad mini 3, iPad mini 2, iPad mini, iPad with Retina Display, iPad (4th generation), iPad (3th generation) iPad 2. iPhone and iPad are registered trademarks of Apple, Inc., registered in the U.S. and other Countries. Compatible with Android 4.4 or higher. Android is a trademark of Google Inc. Bluetooth® is a trademark of Bluetooth® SIG.

Unexpectedly More!

The Uniweld SmarTech™ Wireless Digital Manifold communicates with your Android or iOS smart device using our free downloadable app. The SmarTech™ app, with 111 refrigerant profiles, calculates and displays the system's real time pressures, temperatures, Superheat and Subcooling in a user friendly format.

SmarTech's digital accuracy takes the guess work out of properly charging a system for maximum efficiency and optimal performance.



2 Valve aluminum manifold body with easy grip handles, double O-ring piston valves and easy access front hose holders.

BALL VALVE

Uniweld Ball Valve specifically designed for the HVAC/R industry to hold vacuum and pressure.



After nitrogen pressure test, open the ball valve to purge the manifold and hoses.

Vacuum Rated to 20 microns. After system evacuation, close the ball valve to disconnect from pump and charge system.



EASY ACCESS



Multi function 1/4" Male Flare "T" Fitting built into the blue hose for connecting a Vacuum Gauge or Simplified Purging and Charging Refrigerant. Uniweld Vacuum Gauge (Part #UVG) not included, sold separately. (Patents Pending)



EZ TURN ANTI-BLOWBACK HOSES



5 Ft. Red and Blue Hoses with EZ Turn Anti-Blowback Fittings that feature our exclusive thrust bearing that reduces friction so the service hose can be easily connected to the access fitting while under pressure. (Patents Pending).

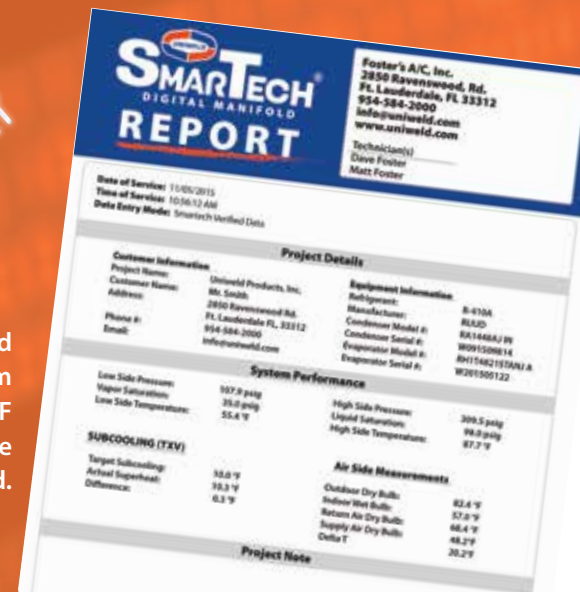
ACCURATE TEMPERATURE



Red and Blue Temperature Clamps, K-Type with 6 Ft. Lead and (2) K-Type Thermocouple Bead Probes.



Export a SmarTech Verified Report and email system performance data as a PDF or CSV file that can be easily tracked and saved.





SMARTeCH[®]

Wireless Digital Manifold



USTCK



USTBP



USCASE



USVS5



EZ5R



EZT5B



H5BVY

SMARTeCH™ WIRELESS DIGITAL MANIFOLD

PART# USMAN145

INCLUDES: (1) Yellow 5 Ft. Ball Valve Hose Vacuum Rated to 20 Microns, (1) Red 5 Ft. EZ Turn Hose, (1) Blue 5 Ft. EZ Turn Hose with 1/4 Male Flare "T" Fitting, (1) Blue and (1) Red K-Type Temperature Clamp with 6 Ft. Lead, (2) Thermocouple Bead Probes, (1) SmarTech Protective Padded Case, (6) AA Batteries, (10) Velcro Straps. US & International Patents Pending.

REPLACEMENT PARTS

- USTCK** Temperature Clamp K-Type with 6 Ft. Lead and (5) 5" Velcro Cable Tie Straps.
- USTBP** Thermocouple Bead Probe
- EZ5R** 5 Ft. EZ Turn Anti-Blowback Hose, Red
- EZT5B** 5 Ft. EZ Turn Anti-Blowback Hose with EZ Access "T" Fitting™, Blue
- H5BVY** 5 Ft. Ball Valve Hose, Yellow Vacuum Rated to 20 Microns
- USVS5** 5" Velcro Cable Tie Strap (Pkg. of 5)



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