

TOOLS by TPI

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TOTALINE

Universal HVAC/R
Parts and Supplies

by



Totaline® is a single source for your
universal aftermarket parts and tools

Totaline® Tools by TPI

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AC Safety Volt Check P920-50-TPI

Non-contact detection of 50-1000 VAC, with sound and visual alert.



Lifetime Limited Warranty

Check for AC voltage in wires, wall receptacles, fuses, junction boxes, switches, defective grounds, breaker panels, motors, compressors, and much more with the Totaline AC Safety Volt Check tool.

You no longer need to disconnect your system in order to test for voltage; the P920-50-TPI is a non-contact tool. To use you simply touch the tool to a connection point or move along an insulated wire. If AC voltage is present, the tool will sound an audio alert and an LED light in the probe tip will glow bright red.

Test for wire troubleshooting: The illumination will stop at a break in the circuit or wire.

Benefits:

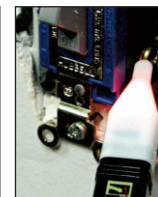
- Help prevent electrical shocks
- Non-contact detection of 50 to 1000 VAC
- Troubleshoot electrical circuits
- No switch required
- Always ready for use (does not require an on / off button)
- Sound and visual alert
- Buzzer will not react to static electricity, only AC voltage
- Lifetime warranty

Specifications:

Operating Range:	50 to 1000 VAC
Accuracy	±1°C or ±2°F
Response Time	500 m Second
°C/°F Select	Yes
Operating Temperature	-20°C ~ 55°C (-4°F ~ 131°F)
Operating Humidity	95% (0 to 30°C) 75% (30 to 40°C) 45% (40 to 55°C)
Power	2 1.5 Volt alkaline batteries
Agency Approval	CAT IV 1000V



AC Voltage in wall receptacles



AC Voltage in switches



AC Voltage in junction boxes

Did you know...

The P920-50-TPI will not pick up interference between various wires. You will get true voltage detection regardless of how close the wires are together.



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Universal HVAC/R
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Electrical Tools

Clamp-on tester with Frequency and Capacitance P920-265-TPI



8" x 3"

The P920-265-TPI with slim jaw and body is ideal for cramped work areas and crowded electrical panels.

Applications:

- Test start and run capacitors
- Measure motor run current
- Measure heat anticipator current
- Determine thermocouple voltage
- Test line and control voltages
- Measure heating element resistance
- Measure and adjust variable frequency drives

Features:

- Slim jaw and body design for use in crowded electrical panels
- 4,000 count display
- Capacitance range up to 4,000 microfarads to test run and start capacitors
- 0.1 DC millivolt resolution to accurately measure thermocouples and use optional adapters
- 0.01 AC Amp resolution to measure heat anticipator current
- Frequency measurement capability
- AC/DC volts up to 600V and AC Amps up to 400A
- Diode, resistance, and audible continuity ranges
- Auto / manual ranging
- Data hold
- Auto power off
- CAT III 600V rated
- 3-Year limited warranty

Specifications:

Basic DC Accuracy:	0.5%
DC Voltage (maximum):	600V
Resolution (maximum):	0.1mV
AC Voltage (maximum):	600V
Resolution (maximum):	0.1mV
AC Amps (maximum):	400A
Resolution (maximum):	0.01A
Resistance (maximum):	40MΩ
Resolution (maximum):	0.1Ω
Frequency (maximum):	400MHz
Resolution (maximum):	0.001KHz
Capacitance (maximum):	4,000μF
Resolution (maximum):	0.001nF
Diode:	Test Current Max 1.5mA
Continuity:	Buzzer sounds at <approx. 35Ω Response time; 50ms
Overall Dimensions:	8" x 1.5" x 3.0" (203 x 38.1 x 76.2mm)
Weight:	.6 lbs (272g)
Standard Accessories	
A040	Standard test lead set
A265	Soft Carrying Pouch
Optional Accessories	
A202	Line Splitter
A771	Carbon Monoxide Adapter
A620	Pressure Adapter
TLS2000RB	Deluxe Test Lead Kit
A301	Single Input Temperature Adapter
A312	Dual Input Temperature Adapter
A213	Microamp Adapter
Agency Approvals	
CE IEC 61010-1	CAT III 600V
UL 61010-1 (cULus)	CAT III 600V

Did you know...

The P920-265-TPI Clamp-on Tester is your go-to basic HVAC meter. For enhanced functionality check out the P920-270-TPI Clamp-on Tester with Digital Multimeter.

Electrical Tools

Clamp-on tester with Digital Multimeter P920-270-TPI



10" x 1.3" x 2.5"

Perfect for tight, narrow, spaces.

The P920-270 with slim jaw and body is ideal for cramped work areas and crowded electrical panels.

Applications:

- Measure flame safety control current
- Test run and start capacitors and motors
- Measure motor run current and capture peak motor start up amperage
- Measure heat anticipator current
- Determine thermocouple voltage
- Test line and control voltages
- Measure heating element resistance
- Measure air temperature in ducts
- Test for the presence of voltage in circuits without contacting the circuit
- Measure temperature differential using relative mode

Features:

- Measure motor in-rush current and run current
- Measure temperature differential with relative mode
- Non-contact voltage feature immediately determines if power is being supplied to the 24VAC control circuit on the thermostat
- Frequency, Min/Max/Record, data hold, and peak hold
- Up to 40,000 microfarads to test run and start capacitors
- 4,000 count display with 41 segment analog bar graph

Specifications:

Basic DC Accuracy:	0.5%
DC Voltage (maximum):	600V
Resolution (maximum):	0.1mV
AC Voltage (maximum):	600V
Resolution (maximum):	0.1mV
DC Amps(maximum):	400µA
Resolution (maximum):	0.01µA
AC Amps(maximum):	400A
Resolution (maximum):	0.01A
Resistance (maximum):	40Ω
Resolution (maximum):	0.1Ω
Frequency (maximum):	400MHz
Resolution (maximum):	0.001KHz
Capacitance (maximum):	40,000µF
Resolution (maximum):	0.001nF
Temperature (maximum)	1,000°F
Resolution (maximum)	0.1°
Diode:	Test Current Max 1.5mA
Continuity:	Buzzer sounds at <approx. 35Ω Response time; 50ms
Overall Dimensions:	10" x 1.3" x 2.5" (255 x 32.5 x 65mm)
Weight:	.8 lbs (363g)

Standard Accessories

GK11M	Standard K-Kype Thermocouple Probe
A085	UL Listed Silicone Test Lead Set with Alligator Clips (clip-on)
A270	Soft Carrying Pouch

Optional Accessories

A202	Line Splitter
A771	Carbon Monoxide Adapter
A620	Pressure Adapter
TLS2000RB	Deluxe Test Lead Kit

Agency Approvals

CE IEC 61010-1	CAT III 600V
UL 61010-1 (cULus)	CAT III 600V

Did you know...

The P920-270-TPI does a variety of functions including flame sensor, DC Micro amps, and temperature. Features enhanced Multimeter!



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Electrical Tools

True RMS DMM with capacitance, low-pass filter, duty cycle, and temperature HVAC Multimeter P920-183A-TPI

3 Year Limited Warranty



Features:

- True RMS DMM
- Duty cycle (% pulse width modulation) for measuring modulating gas valves
- Low pass filter for noisy environments
- Separate fuse (2) and battery compartment
- IR serial interface that can be used to input data to PC with optional A183
- High resolution (0.01) low DC microamp range for measuring flame safety control circuit
- Frequency, capacitance, temperature, data hold, min/max record, relative mode
- AC/DC volts, AC/DC amps, resistance, audible continuity and diode test
- UL 61010-1 CAT II 750Vac / 1000Vdc CAT III 600Vac/dc
- 3 year limited warranty

Specifications:

Range Selection

Auto / Manual

Display Specifications

4000 Count Display

Analog Bar Graph

Backlight

Basic Functions

AC / DC Volts, AC / DC Amps

Resistance, Diode Test

Audible Continuity

Additional Functions

True RMS, Frequency,

Capacitance, Temperature

Duty Cycle (% of pulse width modulation (PWM))

Data Hold

Min / Max Record

Relative Mode •

Active Low Pass Filter Function

PC Output

Sleep Mode / Auto Off

Additional Features

Frequency Check in Volt Mode

Closed Case Calibration

Separate Fuse / Battery Access

Protective Boot

Range & Resolution

Basic DC Accuracy	0.5%
DC Voltage (maximum)	1000V
Input Impedance	10MΩ
Resolution (maximum)	0.01mV
AC Voltage (maximum)	750V
Input Impedance	10MΩ
Resolution (maximum)	0.01mV
DC Amps (maximum)	10A
Resolution (maximum)	0.01μA
AC Amps (maximum)	10A
Resolution (maximum)	0.1μA
Resistance (maximum)	40MΩ
Resolution (maximum)	0.1Ω
Frequency (maximum)	10MHz
Resolution (maximum)	0.01Hz
Temperature (maximum)	2372°F
Resolution (maximum)	0.1°F
Capacitance (maximum)	4000μF
Resolution (maximum)	0.01nF
Duty Cycle	0.1 to 99.9%

Agency Approval

CE IEC 61010-1	CAT II 750Vac/1000Vdc CAT III 600Vac/dc
UL 61010-1 (cULus)	CAT II 750Vac/1000Vdc CAT III 600Vac/dc

Electrical Tools

HVAC Multimeter kit P902-183AC3-TPI



HVAC DMM/Clamp Meter Kit

Applications:

- Troubleshoot ECMs and VFDs
- Test Flame Sensors
- Check Capacitors
- Measure Temperature Rise

Kit Includes:

- True RMS DMM (P920-183A-TPI)
- Clamp-On Tester (P920-265-TPI)
- General Purpose Probe
- Test Lead Alligator Clips
- Test Lead
- Soft Padded Case

Test Lead Kit P920-TLK3-TPI

Fits all major brands of meters

- A057 back probes ideal to trouble shoot ECMs, Molex™ connectors or Molex type connector.
- A080 UL listed silicone test leads
- A052 modular male banana plug to screw tip test leads like the A080.
- A150 Screw on alligator clips with boots
- 3-year limited warranty



Did you know...

Test lead replacement for all meters! With this Test Lead Kit P920-TLK3-TPI you get Test Leads and Back Probes. No need to purchase separately!



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Temperature Tools

Pocket Thermometer P920-315C-TPI

Test Extreme Temperatures Immediately with the Pocket Thermometer



Applications:

- HVAC/R: Ambient air, calibrate
- Thermostats: Vents, compressor heads, registers
- Electrical: Motor temperatures, transformer temperatures

Features:

- Auto field calibration to +/- 2°F
- Tapered stem (3.1mm diameter) to fit into a Pete's Plug
- Reinforced, heavy-duty housing for strength
- Waterproof (IP63)
- Fits in your pocket
- -58°F to 300°F (-50°C to 150°C)
- Rugged design to withstand a 10 foot drop
- Magnetic clip, perfect for air duct applications
- 3 Year Limited Warranty

Specifications:

Temperature Range	-58°F to 300°F (-50°C to 150°C)
Accuracy	+/-2°F (+/-1°C)
Resolution	0.1°F/°C
Sample Rate	1 reading every 1.5 second
Stem Length	2.8"
Tip Type	Penetration
Water Resistant	Yes
Water Proof	N/A
°C / °F Selectable	Yes
Data Hold	Yes
Auto Off	Yes
Battery Type	LR44

Did you know...

This Pocket Thermometer P920-315C-TPI is FIELD CALLBRATABLE!!!!

Temperature Tools

Infrared Thermometer - P920-381A-TPI



Measure hard-to-reach, sensitive, or large moving target temperatures

IR/K measurements available with the Totaline Infrared Thermometer; select the IR for non-contact measurements or set to K for contact measurements. Easily read the temperatures throughout various applications by holding the trigger and reading through the backlit display. Easy to use! Repeatable, 0.1° resolution readings ensures tests are consistently correct.

- Free E-type thermocouple with sub-mini input jack included

Applications:

HVAC/R

- Compressor heads
- Vents
- Hot and cold areas in insulation
- Leaks around cooler or freezer doors
- Leaks around windows
- Steam traps
- Registers

Electrical

- Cables
- Circuit breakers
- Connections
- Machinery
- Motors
- Transformers

Food

- Grill & surface temperatures
- Holding cabinets
- Serving temperatures
- Storage temperatures

Features:

- Non-Contact -4° to 572° F
- Contact -146 to 2,192°F (optional temperature probe)
- Temperature compensated
- Single button, last reading hold function (°F / °C Switching)

Specifications:

Distance to Spot Ratio	9 : 1
Temperature Range	Non-contact: -4° to 572°F (-20° to 300°C) Contact:* -148° to 2192°F (-100° to 1200°C)
IR Accuracy @ 23°C and 0.95 emissivity	± 5°F (3°C) below 32°F (0°C) 32°F to 572°F (0°C to 300°C) ± 2% of rdg or ± 3.5°F (2°C) whichever is greater
Contact Accuracy	+ (0.5% of reading + 3.5°F (2°C))
Emissivity	0.95
Laser Sighting °F or °C	Output <1mW, Wavelength 645-660nm, Class II Laser Selectable (slide switch in handle)
Contact or Non-contact	Selectable (slide switch in handle)
Display Hold	Yes
Response Time	500 millisecond
Spectral Response	7 - 14 um
Operating Temperature	32° to 120°F (0° to 150°C)
Battery Type	9 Volt



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Did you know...

The Infrared Thermometer -920-381A-TPI has added functionality. K Thermocouple to measure air OR Liquid. A Thermocouple is also included with the purchase of this tool.

Temperature Tools



3 Year
Limited
Warranty

Size: 5.75" x 2.75" x 1.5"
41mm x 152mm x 77mm



Tilt Stand For The P920-343-tpi

Dual Input K-Type Thermocouple Thermometer with Field Calibration

The Totaline P920-343-TPI is a reliable, water-resistant thermometer that accepts K-type thermocouples. With two easy steps this tool is also has the capability to be field calibrated.

Applications:

HVAC/R

- Ambient air
- Calibrate thermostats
- Vents
- Compressor heads
- Temperature differential
- Registers

Food Temperatures

- Grill and surface temperatures

Electrical Temperatures

- Cables
- Circuit breakers
- Connections
- Machinery
- Motors
- Transformers

Features:

- Temperature range -58° to 2,462°F (-50° to 1,350°C)
- Auto field calibrate in less than 10 seconds in ice water to achieve +/- 1°F system accuracy within 30°F to 120°F temperature range.
- Easy to read main display: displays OFL to show disengaged or open probe
- Thermocouple type indicator
- Display mode indicator (T1, T2, T1-T2)
- On/Off button with guard to prevent accidental engagement
- Freezes reading on display
- Select input T1 or T2 and display temperature differential (T1-T2)
- Select between Celsius and Fahrenheit display
- Record and display minimum and maximum temperatures
- 3 Year Limited Warranty

Specifications:

Measurement Range (K-Type):	-58 to 2,462 °F (-50 to 1,350 °C)
Accuracy:	-58° to 32°F (-50° to 0°C) = ±3°F (1.6°C) 32° to 1100°F (0° to 600°C) = ±(0.3% of reading, + 1.8°F (1°C)) 1100° to 2462°F (600° to 1350°C) = ±(0.4% of reading, + 1.8°F (1°C))
Resolution:	0.1° / 1°
Connector Type:	Submini, Dual Input

Did you know...

Digital Thermometer - P920-343-TPI tool is FIELD CALLBRATABLE!!!!

Combustion Tools

Combustible Gas Leak Detector – P920-725L-TPI



Find Combustible Gas Leaks with the Totaline® Combustible Gas Leak Detector

Applications:

- Detects combustible gases including methane, butane, propane, gasoline, diesel, and kerosene
- Totaline Gas Leak Detector finds the source of combustible gas leaks in valves, pipes and fittings
- Tick rate can be nullified to eliminate background gas concentration and pinpoint the leak source

How to Use:

Point the Totaline Combustible Gas Leak Detector sensor towards the suspected leak until the tool begins to increasingly tick. When the tick rate increases, press and release the on/off key top nullify the tick and continue to approach the leak area with the sensor. Continue to nullify the tick until the location of the leak is detected.

Specifications:

Sensitivity	> 40ppm Methane
Operating Temp	32° to 104°F or 0° to 40°C
Response Time	Instantaneous
Battery	1.5 volt, AAA Alkaline (2 each)
Battery Life	3 hours continuous use

Did you know...

Combustible Gas Leak Detector P920-725L-TPI has the same functionality as UEI, Fieldpiece, and Fluke! Competitive Pricing!

Combustion Analyzer with Smart Sensors – P920-717-TPI Field Replaceable O2 & CO Sensors



The P920-717-TPI enables users to perform sensor replacement without having to perform calibration through pre-calibrated oxygen and carbon monoxide smart sensors.

How to Use:

Remove the old sensor, install the new sensor, and wait 24 hours for sensor stabilization. Once the 717 is turned on calibration, data is automatically transferred to the analyzer.

Features:

- Built-in differential manometer with 0.001" H₂O resolution
- Calculates combustion efficiency
- Pump driven for fast response
- Will not shut off if 15 ppm CO is present for increased safety
- Built-in differential thermometer
- Store function to save up to 100 readings
- Push on fittings for fast and easy use
- Large easy to read backlit display
- 11 selectable fuels

Kit Includes:

- Soft carrying case
- Silicone tubing
- Flue probe
- Mini pump protection filter
- K-type thermocouple
- Brass hose barb fitting

Combustion Analyzer with Smart Sensors and Printer – P920-717A740-TPI

This includes everything the Combustion Analyzer P920-717-TPI does plus a printer!



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Pressure Tools

Dual Input Differential Manometer – P920-621-TPI



Differential Manometer can be used for various applications such as adjusting appliance regulators, checking regulators, pressure switches, and furnace duct pressure testing.

Features:

- Capability to measure negative and positive pressure
- Measures in 7 different units of measure (mbar, kPa, PSI, mmHg, mmH2O, inH0)
- Smooth feature: stabilizes display when measuring fluctuating pressures
- Range -120 and 120 inches of water column
- Temperature compensated: allows you to continue to have an accurate reading even when changing to extreme temperatures

Specifications:

Measurement Range:	±120" H2O
Display:	5 Digit LCD with backlight
Input Type:	Dual Differential (1/4" Barbed)
Resolution (max):	0.001" H2O
Accuracy:	-40.2 to 40.2 inH2O: ±(0.2% of F.V.) <-40.2 & >40.2 inH2O: ±(1% of M.V.)
Functions:	One Touch Zero, Back-light, Unit Selection, Smoothing, Auto power Off
Units of Measure:	7 Units (mbar, kPa, PSI, mmHg, inHg, mmH2O, inH2O)
Battery Type:	9V alkaline
Battery Life:	80hours (Typical)
Auto Power Off:	40 minutes
Standard Accessories (Included):	9V alkaline battery (A009A), two pieces 30" silicone tube (A613), two 1/8" NPT to 1/8" barbed fittings (A603)



Dual Input Differential Manometer Kit – P920-621C3-TPI

Kit Includes:

- P920-621C3-TPI Manometer
- Tubing
- 2 x T Fittings
- Adapter Tube
- 2 x Static Tip
- Carrying Case

Did you know...

This P920-621C3-TPI Manometer replaces the majority of manometers out there PLUS there is a high range of higher resolution. Reduce your inventory!

Totaline® Part Number Tool Cross Reference

Totaline Part Number	Description	TPI Part Number	UEI Part Number	Fluke® Part Number	Fieldpiece Part Number
P920-183A-TPI	HVAC Multimeter	183A	DM393	116	LT16A
P920-183AC3-TPI	HVAC Multimeter Kit	183AC3	N/A	116/322	N/A
P920-265-TPI	Clamp-On Meter	265	DL369	322	SC220
P920-270-TPI	HVAC Clamp Meter	270	DL379	324	SC240
P920-315C-TPI	Pocket Thermometer	315C	PDT550	N/A	SWT2
P920-343-TPI	Digital Thermometer	343	DTK2	52-2	ST4
P920-381A-TPI	Infrared Thermometer	381A	INF165	62	SIG1
P920-50-TPI	AC Safety Volt Check	50	NCV3	LAC	N/A
P920-621-TPI	Dual Input Differential Manometer	621	EM201B	N/A	SDMN5
P920-621C3-TPI	Dual Input Differential Manometer Kit	621C3	EM201SP Kit	N/A	N/A
P920-725L-TPI	Combustible Gas Leak Detector	725L	CD100	N/A	N/A
P920-TLK3-TPI	Test Lead Kit	TLK3	ATLBPK	N/A	N/A
P920-717A740-TPI	Combustion Analyzer with Printer	717A740	C155 Kit	N/A	N/A
P920-717-TPI	Combustion Analyzer with Smart Sensors	717	C155	N/A	N/A



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