

Totaline® Clamp-on tester with Digital Multimeter P920-270



10" x 1.3" x 2.5

Perfect for tight, narrow, spaces.

The new P920-270 with slim jaw and body is ideal for cramped work areas and crowded electrical panels. It can help you:

- 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:

- Max display count: 4,000
- Auto & manual ranging
- Analog bar graph (41 segments)
- Data hold
- Low battery indicator
- Over range indication ("OL")
- Peak hold
- Min/Max
- Relative mode
- Hi voltage indicator(>30V AC/DC)
- Non-contact voltage detection
- Auto power off after 30 minutes
- Separate battery compartment
- Low Ohm range (400V)
- Amps AC resolution: 0.01A
- VDC/VAC resolution: 0.1mV
- DCµA measurement (0.01µA resolution)
- Temperature measurement
- Capacitance measurement
- 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
DC amps (maximum):	400µA
Resolution (maximum):	0.01µA
AC amps (maximum):	400A
Resolution (maximum):	0.01A
Resistance (maximum):	40MV
Resolution (maximum):	0.1V
Frequency (maximum):	400MHz
Resolution (maximum):	0.001KHz
Capacitance (maximum):	40,000µF
Resolution (maximum):	0.001nF
Diode: test current max	1.5mA
Continuity time; 50ms:	Buzzer sounds at <approx. 35V Response
Agency approval:	CEIEC 1010: CATIII; 600V cULus 3111: pending
Overall dimensions:	10" x 1.3" x 2.5" (255 x 32.5 x 65mm)
Weight:	.8 lbs (363g)

Standard Accessories

GK11M	Standard K-type 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

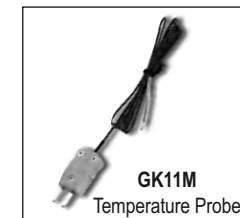
Standard Accessories



A270
Carry Pouch



A085
Test Leads



GK11M
Temperature Probe

P920-270 FAQs

1. How does the non-contact voltage detection work?

This feature allows you to detect the presence of voltage without contacting the circuit with the test leads. By pressing the NCV button and holding the jaw close to the wire or circuit, the meter will inform you both audibly and visually if the circuit is live.

2. What is hi voltage indication? High voltage indication is an audible and visual safety alert informing you that the test leads are in contact with a voltage greater than 30V AC or DC.

3. What is relative mode? Relative mode allows you to perform measurements relative to a stored value. For example, when performing a low resistance measurement, first touching the test prods together and pressing the relative button will subtract the lead resistance from subsequent measurements.

4. Is it possible to determine the maximum current draw on a line that has loads that vary? By activating the min/max mode on the P920-270 it will record the minimum and maximum current measured. This is helpful when trying to see what the maximum load draw is as devices turn on and off.

5. Can I measure motor start up current with the P920-270 clamp-on tester? Yes, the P920-270 has a peak hold function that allows motor start up current to be captured.

6. Can I test the run and start capacitors on motors?

The P920-270 has the ability to measure capacitors up to 40,000 microfarads in size.

7. Do I need an adapter to measure temperature with the P920-270? An adapter is not needed to perform temperature tests with the P920-270. The P920-270 accepts K-type thermo-couple probes with a sub-mini connector.

8. What is the value of having an analog bargraph display?

The analog bargraph allow you to see rapid signal fluctuations occurring too fast to be seen on the digital display. Meters without this feature are unable to show the presence of rapidly fluctuating inputs.

9. Is it possible to measure AC amps on a device that uses a power cord?

Yes, to accomplish this you can use the line splitter (A202). AC amps must be measured by isolating a single wire and the A202 line splitter does this without damaging the power cord.

Totaline® Clamp-on tester with Frequency and Capacitance P920-265



8" x 3"

Perfect for tight, narrow, spaces

The new P920-265 with slim jaw and body is ideal for cramped work areas and crowded electrical panels. It can help you:

- 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

Instrument 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):	40MV
Resolution (maximum):	0.1V
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. 35V Response time; 50ms
Agency Approval:	

Overall Dimensions: 8" x 1.5" x 3.0" (203 x 38.1 x 76.2mm)

Weight: .6 lbs (272g)

Standard Accessories

GK11M	Standard K-Type 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
A301	Single Input Temperature Adapter
A312	Dual Input Temperature Adapter
A213	Microamp Adapter

P920-265 FAQs

- 1. Will the P920-265 measure temperature?**
The P920-265 has the capability to be used with the A301 single input or A312 dual input K- type adapters to measure temperature.
- 2. Are any other adapters available for the P920-265?**
Yes, the P920-265 can be used with the A771 to measure carbon monoxide and the A620 to measure pressure.
- 3. Can I use the P920-265 to troubleshoot variable speed motors?** The P920-265 has the capability to measure frequency making set up and troubleshooting variable speed motors easy.
- 4. Is it possible to measure heat anticipator current with the P920-265?** The P920-265 has a 40A range with 0.01A resolution, which is ideal for measuring heat anticipator and small motor current.
- 5. Can I test the run and start capacitors on motors?**
The P920-265 has the ability to measure capacitors up to 4,000 microfarads in size.
- 6. How do I measure AC Amps on a device with a power cord?** To measure AC amps a single wire must be isolated. The A202 line splitter makes this easy without damaging the power cord.

DIGITAL CLAMP-ON METERS



- Autoranging
- Compact Size
- Test continuity in circuits and wires
- Measure current draw of electrical circuits.
- Measure resistance of components.
- Measure inrush current of motors, relays and solenoids.

Part No.: 255



- Autoranging true RMS clamp-on
- Peak hold, trim mode and data hold functions.
- Measure AC/DC volts, frequency, AC amps and ohms to 40M ohms.
- Analog bar graph and continuity buzzer.
- Standard accessories include soft pouch test leads and a limited 3 year warranty.

Part No.: 293



- Manual range meter measures up to 700 AC amps.
- Peak hold and data hold functions.
- Continuity buzzer.
- Measures AC/DC volts and ohms to 4K ohms.
- Complete with soft pouch, test leads, instruction manual and a 3 year limited warranty.

Part No.: 291



- True RMS and Harmonics features.
- Measures line and controls circuit voltage.
- Measures current draw of electrical circuits.
- Measures inrush current of motors, relays and solenoids.
- Measures resistance of components.
- Standard accessories include soft pouch, test leads and a 3 year limited warranty.

Part No.: 296

FEATURES	255	291	293	296
Display Count	4000	4000	4000	4000
AC Volts	600	600	600	600
DC Volts	600	400	600	600
Basis DC Accuracy	0.30%	0.75%	0.75%	0.75%
AC Amps	400	700	700	700
DC Amps	NA	NA	NA	700
HDR Mode	NA	NA	NA	YES
True Amps	NA	NA	NA	YES
Resistance	40M ohms	4K ohms	40K ohms	40K ohms
Frequency	NA	NA	10K Hz	10K Hz
Temperature		NA	YES	YES
Capacitance		NA	YES	YES
Analog Bar Graph	NA	YES	YES	YES
Auto Range	YES	PEAK ONLY	PEAK ONLY	YES
Data Hold	YES	NA	YES	YES
Min./Max	YES	NA	YES	YES
Trim	NA	NA	NA	NA
Sleep Mode	NA	CE	CE cULus 3111-1	CE cULus 3111-1
Auto Power Off	YES			
CE or UL Listed	CE cULus 3111-1			

Compressors,
Chillers, Condensers

Motors

Electrical

Heating
Components

Indoor Air
Quality

Thermostats

Oils &
Chemicals

Accessories, Supplies
& Commodities

Tools &
Instruments

Refrigeration