

270 Clamp-On Tester with Digital Multimeter

Test the TPI Advantage



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



10" x 1.3" x 2.5"

Why pay more?

Perfect for tight, narrow, spaces...

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

Features

- Measure motor in-rush current and run current
- Measure temperature differential with relative mode
- Non-contact voltage feature can be used to immediately see if power is being supplied to the 24VAC control circuit of thermostats
- 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 bargraph

ALL THESE PLUS...

- Auto & Manual Ranging
- Low Battery Indicator
- Over Range Indication ("OL")
- Hi Voltage Indicator (>30V AC/DC)
- Auto Power Off after 30 minutes
- Separate Battery/Fuse Compartment
- Low Ohm Range (400V)
- Amps AC Resolution: 0.01A
- VDC/VAC Resolution: 0.1mV
- DC μ A measurement (0.01 μ A resolution)
- Temperature measurement with 0.1 ° resolution

270 Clamp-On Tester General Features and Specifications

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TPI offers
a complete line of...
CO, Combustibles &
Combustion (CEA)

Refrigerant Leak
Detectors

Digital Manometers

Temperature Contact &
IR Instruments

IAQ: Air Flow /
Humidity

Handheld Oscilloscopes

Digital Multimeters &
Clamp-on Meters

Accessories & Kits

Instrument 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):	400 μ A
Resolution (maximum):	0.01 μ A
AC Amps(maximum):	400A
Resolution (maximum):	0.01A
Resistance (maximum):	40 Ω
Resolution (maximum):	0.1 Ω
Frequency (maximum):	400MHz
Resolution (maximum):	0.001KHz
Capacitance (maximum):	40,000 μ F
Resolution (maximum):	0.001nF
Temperature (maximum)	1,000 $^{\circ}$ F
Resolution (maximum)	0.1 $^{\circ}$
Diode:	Test Current Max 1.5mA
Continuity:	Buzzer sounds at <approx. 35 Ω Response time; 50ms
Agency Approval:	CEIEC 1010: CATIII; 600V cULus 61010
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

Distributed By:

FAQ

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 NOV 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 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 leads 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 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 TPI 270 clamp-on tester?

Yes, the 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 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 270?

An adapter is not needed to perform temperature tests with the 270. The 270 accepts K-type thermocouple 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 TPI 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.