



# 275 Clamp-On Tester with True RMS Digital Multimeter & 11,000 Count Display

## APPLICATIONS

Measure DC amperage of motor drive units

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

**The Value Leader™**



10" x 1.3" x 2.5"

## Why pay more? Perfect for tight, narrow, spaces...

The new TPI 275 with slim jaw and body is ideal for cramped work areas and crowded electrical panels.

## Features

- True RMS
- 11,000 count display
- Up to 400 amps AC/DC
- Auto & Manual Ranging
- 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 (110Ω)
- Amps AC Resolution: 0.01A
- VDC/VAC Resolution: 0.01mV
- DCμA measurement (0.01μA resolution)
- Temperature measurement

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## 275 Clamp-On Tester General Features and Specifications

**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**

### Test Products

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### Instrument Specifications

Basic DC Accuracy:	0.5%
DC Voltage (maximum):	600V
Resolution (maximum):	0.01mV
AC Voltage (maximum):	600V
Resolution (maximum):	0.01mV
DC Amps (maximum):	400A
Resolution (maximum):	0.01A
DC Microamps (maximum):	1,100µFA
Resolution (maximum):	0.01µA
AC Amps (maximum):	400A
Resolution (maximum):	0.01A
Resistance (maximum):	110MΩ
Resolution (maximum):	0.01Ω
Frequency (maximum):	110MHz
Resolution (maximum):	0.1Hz
Capacitance (maximum):	110mF
Resolution (maximum):	0.001nF
Temperature (maximum):	1,000°F
Resolution (maximum):	0.1°F
Diode:	Test Current Max 1.5mA
Continuity:	Buzzer sounds at <approx. 35Ω Response time; 50ms
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-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

### Distributed By:



To learn about the entire line of TPI products visit:

**www.tpi-thevalueleader.com**

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# 275

### 1. What is the benefit of a True RMS meter?

A True RMS responding meter, like the 275, allows accurate measurement of distorted AC voltage and amperage waveforms as found in control and switching power supply circuits.

### 2. 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.

### 3. 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.

### 4. 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.

### 5. 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 275 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.

### 6. Can I measure motor start up current with the TPI 275 clamp-on tester?

Yes, the 275 has a peak hold function that allows motor start up current to be captured.

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

The 275 has the ability to measure capacitors up to 40,000 microfarads in size.

### 8. Do I need an adapter to measure temperature with the 275?

An adapter is not needed to perform temperature tests with the 275. The 275 accepts K-type thermocouple probes with a sub-mini connector.

### 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.