

TECHNI-PRO

Product Data Sheet

True RMS AC/DC Clamp Meter

TNP401



Features

- True RMS clamp meter
- Maximum voltage: 600V AC/DC
- Maximum current: 1000A AC/DC
- 1.57" jaw opening (40mm)
- Testing functions include AC/DC voltage and current, resistance, temperature, capacitance, frequency, continuity, and diode testing
- 6000-count display
- CAT III 600V
- 61 segment bar graph
- Non-contact AC voltage detection
- Data hold and min/max

Product Information

The Techni-Pro **TNP401** is a reliable tool for comprehensive electrical testing. With a generous 1.57" (40mm) jaw opening, this clamp meter is designed to handle various tasks with precision.


Included

- Meter
- Test leads
- Soft case
- K-type thermocouple and adapter
- Battery
- Instruction manual

Accessories

- TNPAL286 alligator clips

General Specifications

Clamp Size	Opening 1.5" (40mm) approx
Diode Test	Test current of 0.3mA typical; open circuit voltage 1.5V DC typical
Continuity Check	Threshold <40Ω; Test current <0.5mA
Low Battery Indication	"  " is displayed
Overrange Indication	"OL" is displayed
Measurements rate	2 per second, nominal
Input Impedance	10MΩ (VDC and VAC)
Display	6000 counts LCD
AC Current Bandwidth	50-400Hz (AAC)
AC Voltage Bandwidth	50-400Hz (VAC)
Operating Temperature	41 to 104°F (5 to 40°C)
Storage Temperature	-4 to 140°F (-20 to 60°C)
Operating Humidity	Max 80% up to 87°F (31°C) decreasing linearly to 50% at 104°F (40°C)
Storage Humidity	<80%
Operating Altitude	7000 ft. (2000 meters) maximum
Over Voltage	Category III 600V
Battery	One 9V Battery
Auto OFF	Approx. 15 minutes
Dimensions/Weight	232 x 77 x 39mm / 271g
Safety	For indoor use and in accordance with Overvoltage Category II, Pollution Degree 2. Category II includes local level, appliance, portable equipment, etc. with transient overvoltages less than Overvoltage Cat. III

Rev. JAN24

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True RMS AC/DC Clamp Meter

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Accuracy Specifications

AC Current		
Range	Resolution	Accuracy
50 / 60Hz	600.0 AAC	$\pm (2.8\% + 8d)$
	1000 AAC	$\pm (3.0\% + 8d)$
400Hz	600.0 AAC	$\pm (5.0\% + 10d)$
	1000 AAC	

AC Voltage		
Range	Resolution	Accuracy
50 - 400Hz	6.000 VAC	$\pm (1.8\% + 8d)$
	60.00 VAC	
	600.0 VAC	

Capacitance	
Resolution	Accuracy
40.0nF	$\pm (4.0\% + 20d)$
400.0nF	$\pm (3\% + 5d)$
4.000 μ F	
40.00 μ F	$\pm (4.0\% + 10d)$
400.0 μ F	
4000 μ F	

Resistance	
Resolution	Accuracy
600.0 Ω	$\pm (1.0\% + 4d)$
6.000K Ω	$\pm (1.5\% + 2d)$
60.00K Ω	
600.0K Ω	$\pm (2.5\% + 3d)$
6.000M Ω	
60.00M Ω	

Note: Accuracy specifications consist of two elements:

- (% reading) -This is the accuracy of the measurement circuit.
- (+ digits) -This is the accuracy of the analog to digital converter.

DC Current		DC Voltage	
Resolution	Accuracy	Resolution	Accuracy
600.0 ADC	$\pm (2.8\% + 5d)$	600.0 mVDC	$\pm (0.8\% + 2d)$
1000 ADC	$\pm (3.0\% + 5d)$	6.000 VDC	$\pm (1.5\% + 2d)$
		60.00 VDC	
		600.0 VDC	

Temp (type-K)	
Range	Accuracy
-20.0 to 760.0 $^{\circ}$ C	$\pm (3\% + 5^{\circ}$ C)
-4.0 to 1400.0 $^{\circ}$ F	$\pm (3\% + 9^{\circ}$ F)

Probe accuracy not included.

Frequency Sensitivity: 15Vrms	
Resolution	Accuracy
10-10kHz	$\pm (1.5\% + 2d)$

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