

# TECHNI-PRO

## Product Data Sheet

# True RMS Compact Multimeter

TNP101



## Features

- Functions include AC/DC voltage and current, resistance, capacitance, frequency, duty cycle, continuity, and diode testing
- Easy to hold - only 4.7”H x 2.6”W x 1.8”D
- Maximum voltage: 600V AC/DC
- Maximum current: 10A AC/DC
- 4000-count negative display
- Double molded plastic housing - water-resistant, rugged design
- CAT III 600V
- Auto-ranging

## Product Information

The Techni-Pro **TNP101** is built to withstand demanding electrical environments, featuring a rugged, water-resistant double-molded plastic housing for durability and longevity. With a CAT III 600V rating, you can trust it for a wide range of applications, ensuring safety and accuracy in your measurements.

### Included

Multimeter

Test leads

Instruction manual

AAA batteries (x2)

### Accessories


TNPBG2 bag

TNPAL286 alligator clips

20001412 fuse (500mA/600V)

20001413 fuse (10A/600V)

## General Specifications

Enclosure	Double molded
Shock (Drop Test)	6.5 feet (2 meters)
Diode Test	Test current of 1.5mA maximum, open circuit voltage 3V DC typical
Continuity Check	Audible signal will sound if the resistance is less than 50 Ω (approx.) test current <0.35mA0
Input Impedance	>10M Ω VDC & >10M Ω VAC
AC Response	TRMS
ACV Bandwidth	50/60HZ (All wave); 45 to 1000Hz (Sine wave)
Crest Factor	<3 at full scale up to 300V, decreasing linearly to <1.5 at 600V
Display	4,000 count Negative Display
Overrange Indication	“OL” is displayed
Auto Power Off	15 minutes (approx.) with disable feature
Polarity	Automatic (no indication for positive); Minus (-) sign for negative
Measurement Rate	3 times per second, nominal
Low Battery Indication	“  ” is displayed if battery voltage drops below operating voltage
Battery	2 x 1.5V AAA battery
Fuses	mA/μA ranges: 0.5A 600V ceramic fast blow; A range: 10A/600V ceramic fast blow
Operating Temperature	5 to 40°C (41 to 104°F)
Storage Temperature	-20 to 60°C (-4 to 140°F)
Operating Humidity	Max 80% up to 31°C (87°F) decreasing linearly to 50% at 40°C (104°F)
Storage Humidity	<80%
Operating Altitude	2000 meters (7000 ft.) maximum
Weight	342g (0.753lb)
Size	120 x 67 x 46mm
Safety	EN61010-1:2010+A1:2019, EN61010-2-033:2012 for measurement Category III 600V, Pollution Degree 2. BS EN 61010-1:2010+A1:2019 and BS EN 61010-2-033:2012.

Rev. JAN24

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# True RMS Compact Multimeter

TNP101

## Accuracy Specifications

### DC Voltage

Range	Resolution	Accuracy
400mV	0.1mV	±(1.0% + 5 digits)
4V	0.001V	
40V	0.01V	±(1.0% + 3 digits)
400V	0.1V	
600V	1V	

### AC Voltage (50 to 60Hz)

Range	Resolution	Accuracy
4V	0.001V	±(1.2% + 3 digits)
40V	0.01V	
400V	0.1V	
600V	1V	

All AC voltage ranges are specified from 5% of range to 100% of range.

### DC Current

Range	Resolution	Accuracy
400μA	0.1μA	±(1.0% + 3 digits)
4000μA	1μA	
40mA	0.01mA	
400mA	0.1mA	
4A	0.001A	±(1.2% + 3 digits)
10A	0.01A	

20A: 30 sec max with reduced accuracy.

### AC Current (50 to 60Hz)

Range	Resolution	Accuracy
400μA	0.1μA	±(1.2% + 3 digits)
4000μA	1μA	
40mA	0.01mA	
400mA	0.1mA	
4A	0.001A	±(1.8% + 5 digits)
10A	0.01A	

20A: 30 sec max with reduced accuracy.

All AC voltage ranges are specified from 5% of range to 100% of range.

### Resistance

Range	Resolution	Accuracy
400Ω	0.1kΩ	±(1.5% + 5 digits)
4kΩ	0.001kΩ	
40kΩ	0.01kΩ	
400Ω	0.1kΩ	
4MΩ	0.001MΩ	±(2.5% + 20 digits)
40MΩ	0.01MΩ	

### Capacitance

Range	Resolution	Accuracy
40nF	0.01nF	±(4.5% + 10 digits)
400nF	0.1nF	
4μF	0.001μF	±(3.0% + 5 digits)
40μF	0.01μF	
400μF	0.1μF	
4000μF	1μF	

### Frequency (Electrical)

Range	Resolution	Accuracy
10.00-10kHz	0.01Hz	±(1.2% reading)

Sensitivity: 15V rms

### Duty Cycle

Range	Resolution	Accuracy
0.1 to 99.9%	0.1%	±(1.2% + 2 digits)

Pulse width: 100μs-100ms; Frequency: 5Hz to 150kHz

Note: Accuracy is stated at 18 to 28°C (65 to 83°F) and less than 75%RH.

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.

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