

TECHNI-PRO

Product Data Sheet

Heavy Duty True RMS Industrial Multimeter

TNP218

Features

- True RMS
- Functions include AC/DC voltage and current, resistance, continuity, capacitance, frequency, duty cycle, temperature, and diode testing
- LowZ setting eliminates errors from ghost voltages
- Maximum voltage: 1000V AC/DC
- Maximum current: 10A AC/DC
- Able to measure AC and DC microamps
- CAT IV 600V / CAT III 1000V
- IP67-rated for water and dust
- Double molded plastic housing
- Large, high contrast 6000-count LCD display



Product Information

The Techni-Pro **TNP218** Heavy-Duty True RMS Industrial Multimeter doesn't compromise on performance or functionality. Experience outstanding performance without breaking the bank. The TNP218 stands as a testament to the fact that you can have both exceptional features and great value in a multimeter.


Included

- Multimeter
- Test leads
- Batteries
- K-type thermocouple and adapter
- Soft case
- Input caps
- Instruction manual

Accessories

- TNPAL286 alligator clips
- 20001414 fuse (800mA/1000V)
- 20001415 fuse (10A/1000V)

General Specifications

Insulation	Class 2, double-insulated
Enclosure	Double Molded IP67 waterproof and dust-proof
Diode Test	Test current of 1.5mA typical, open circuit voltage 3V typical
Continuity Test	Audible signal will sound if the resistance is approx. $50 \pm 5\Omega$ or less
Low Battery Indication	"  " is displayed
Input Impedance	10MΩ AC/DC Voltage
Display	6,000 count LCD Display
Over Range Indication	"OL" is displayed
Polarity	Minus (-) symbol is displayed for negative polarity
Measurement Rate	3 readings per second, nominal
Auto Power Off	After approx. 15 minutes of inactivity
Low Z	Approx. 3kΩ input impedance
AC Response	True RMS
AC Bandwidth	50/60HZ (ALL WAVE) 45Hz to 1000Hz (SINE WAVE)
Batteries	Four "AAA" 1.5V batteries
Fuses	800mA 1000V (6.3 x 32mm) fast blow 10A 1000V (10 x 38mm) fast blow
Operating Environment	32°F to 104°F (0 to 60°C) at <70% relative humidity
Storage Environment	14°F to 140°F (-10 to 60°C) at <80% relative humidity
Operating Altitude	2000 meters (7000 ft.) maximum
Dimensions/Weight	6.7" x 3.0" x 1.9"/0.85lb (170 x 75 x 48mm/386g)
Safety	Complies with UL 61010-1 v.3 for measurement Category IV 600V and Category III 1000V, Pollution Degree 2

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TNP218

Accuracy Specifications

AC Voltage		
Range	Resolution	Accuracy
6.000V	1mV	
60.00V	10mV	±(0.8% + 8)
600.0V	0.1V	
1000V	1V	±(1.0% + 3)

Input Protection: 1000V AC RMS or 1000V DC
AC voltage accuracy bandwidth: 50/60HZ (ALL WAVE) 45Hz to 1000Hz (SINE WAVE)

Low Z AC Voltage		
Range	Resolution	Accuracy
6.000V	1mV	
60.00V	10mV	±(3.0% +40)
600.0V	0.1V	

Input Protection: 600V AC RMS or 600V DC
Input Impedance: Approx. 3kΩ

DC Voltage		
Range	Resolution	Accuracy
600.0mV	0.1mV	±(0.5% + 8)
6.000V	1mV	
60.00V	10mV	±(0.5% + 5)
600.0V	0.1V	
1000V	1V	±(0.8% + 3)

Input Protection: 1000V AC RMS or 1000V DC

Low Z DC Voltage		
Range	Resolution	Accuracy
600.0mV	0.1mV	
6.000V	1mV	
60.00V	10mV	±(3.0% +40)
600.0V	0.1V	

Input Protection: 600V AC RMS or 600V DC
Input Impedance: Approx. 3kΩ

Resistance		
Range	Resolution	Accuracy
600Ω	0.1Ω	
6.00kΩ	1Ω	
60.00kΩ	10Ω	±(1.5% + 5)
600.00kΩ	100Ω	
6.000MΩ	1kΩ	
60.00MΩ	10KΩ	±(2.0% + 10)

Input Protection: 600V AC RMS or 600V DC

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.

Capacitance		
Range	Resolution	Accuracy
60.00nF	10pF	±(5.0% + 35)
600.0nF	100pF	
6.000μF	0.001μF	
60.00μF	0.01μF	±(3.0% + 5)
600.0μF	0.1μF	
6000μF	1μF	±(5.0% + 5)

Input Protection: 600V AC RMS or 600V DC

Temperature		
Range	Resolution	Accuracy
-4°F to 1400°F	0.1°F	±(2.0% + 9°F)
-20°C to 760°C	0.1°C	±(2.0% + 5°C)

Input Protection: 600V AC RMS or 600V DC

AC Current (50 to 60Hz)		
Range	Resolution	Accuracy
600μA	0.1μA	
6000μA	1μA	
60.00mA	10μA	±(1.5% + 3)
600.0mA	0.1mA	
10A	10mA	±(2.0% + 5)

Overload Protection: μA, mA ranges: 800mA/1000V Fuse
10A range: 10A/1000V Fuse

DC Current		
Range	Resolution	Accuracy
600μA	0.1μA	
6000μA	1μA	
60.00mA	10μA	±(1.0% + 3)
600.0mA	0.1mA	
10A	10mA	±(1.5% + 5)

Overload Protection: μA, mA ranges: 800mA/1000V Fuse
10A range: 10A/1000V Fuse

Frequency (Electrical)		
Range	Resolution	Accuracy
9.999Hz	0.001Hz	
99.99Hz	0.01Hz	
999.9Hz	0.1Hz	±(1.0% + 5)
9.999kHz	1Hz	

Input Protection: 600V AC RMS or 600V DC
Sensitivity: <8V RMS

Duty Cycle		
Range	Resolution	Accuracy
20.0% to 80.0%	0.1%	±(1.2% + 2 digits)

Input Protection: 600V AC RMS or 600V DC
Pulse width: 0.1 to 100mS; **Frequency:** 5Hz to 10kHz
Sensitivity: >8V RMS

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