METRAVI PRO®

Digital T-RMS AC/DC Clamp Meter
PRO 421

Input Limits	
Function	**Maximum Input**
Amperes AC/DC	1000A
Voltage AC/DC	1000V
Frequency, Resistance, Diode, Continuity	1000V
Capacitance Test, Temperature	1000V

GENERAL SPECIFICATIONS

Clamp Size : Opening 1.4" (35mm) approx

TRMS : The AC voltage and AC current of this instrument are measured by TRMS. True RMS measurement is different from mean measurement. The mean measurement method can only measure the symmetric waveform, such as sine wave. True RMS measurements can reliably measure any irregular waveform and obtain valid values for AC voltage or AC current.

Diode Test : Test current of 0.3mA typical; Open circuit voltage 3.2V DC typical.

Continuity Check : Threshold <=50Ω; Test current < 0.5mA

Low Battery Indication : " " is displayed

Overrange Indication : "OL" is displayed

Measurements Rate : 2 per second. nominal

Input Impedance : 10M (VDC and VAC)

Display : 6000 counts LCD

AC Current : 50-60Hz (AAC)

AC Voltage Bandwidth : 50-400Hz (VAC)

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 : 7000ft. (2000meters) maximum.

Over Voltage : Category III 1000V

Battery : Three "AAA" 1.5V Battery

Auto Off : Approx. 30 minutes

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.

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- Non Contact Voltage Detection
- Relative Measurement
- Inrush Current Measurement to measure starting current of Motors
- Peak / Data Hold
- Measurement of Voltage in Variable Frequency Drive (VFD)
- Lo-Z Voltage measurement
- Flash Light in the Clamp to Access Dark Areas

SPECIFICATIONS

AC Current (50/60Hz) T-RMS

Range & Resolution	Accuracy ± (% of reading+digital)
600.0A	±(2.5% + 8 digits)
1000A	±(2.8% + 8 digits)

DC Current

Range & Resolution	Accuracy ± (% of reading+digital)
600.0A	±(2.5% + 5 digits)
1000A	±(2.8% + 5 digits)

AC Voltage (50-400Hz) T-RMS

Range & Resolution	Accuracy ± (% of reading+digital)
6.000V	±(1.5% + 5 digits)
60.00V	
600.0V	
1000V	

LoZ AC Voltage

Range & Resolution	Accuracy ± (% of reading+digital)
6.000V	±(3.0% + 40 digits)
60.00V	
300.0V	

DC Voltage

Range & Resolution	Accuracy ± (% of reading+digital)
600.0mV	±(0.5% + 5 digits)
6.000V	±(1.5% + 2 digits)
60.00V	
600.0V	
1000V	

Resistance

Range & Resolution	Accuracy ± (% of reading+digital)
600.0Ω	±(1.0% + 4 digits)
6.000KΩ	±(1.5% + 2 digits)
60.00KΩ	
600.0KΩ	
6.000MΩ	±(2.5% + 3 digits)
60.00MΩ	±(3.5% + 5 digits)

Capacitance

Range & Resolution	Accuracy ± (% of reading+digital)
60.00nF	±(4.0% + 20 digits)
600.0nF	±(3% + 5 digits)
6.000µF	
60.00µF	
600.0µF	
6.000mF	±(5% + 5 digits)
60.00mF	±(5% + 8 digits)
100.0mF	±(5% + 15 digits)

Frequency Sensitivity: = >5Vrms

Range & Resolution	Accuracy ± (% of reading+digital)
9.999Hz to 99.99kHz	±(1.2% + 5 digits)

Duty Cycle Sensitivity: = >5Vrms

Range & Resolution	Accuracy ± (% of reading+digital)
10.0% to 90.0%	±(1.2% + 2 digits)

Temp (Type-K)

Range & Resolution	Accuracy ± (% of reading+digital)
-20.0 to 1000°C	±(3% + 5°C)
-4.0 to 1832°F	±(3% + 9°F)

(Probe accuracy not included)

Note: Accuracy is given as ±(% of reading + counts of least significant digit) at 23°C±5°C, with relative humidity less than 80%RH. AC voltage and current shall be subject to sine wave.

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