

AC/DC TRMS Clamp Meter Model 419


INTRODUCTION

METRAVI-PRO 419 is the most complete AC T-RMS / DC clamp meter with data hold, backlit LCD Display, Built-in Flash light to measure in dark areas and Non contact Voltage Detector

The instrument confirms to CAT-IV 600V, CAT-III 1000V, CE, IEC-61010-1. It has 35mm Clamp Jaw Dia. With Max / Min / Data Hold facility, the clamp meter is complete on-the-go measuring instrument.

- Professional T-RMS AC/DC Clamp Meter
- 4000 Counts, 3-3/4 Digits Backlit LCD Display
- Confirms to CAT-IV 600V, CAT-III 1000V, CE, IEC-61010-1
- 600V AC/DC Protection in all ranges
- 34 mm Clamp Jaw Dia
- Auto Power Off,
- Non Contact Voltage Detector
- Flash light in the Jaw to access dark Areas
- Double Injection Housing, providing double insulation
- Data Hold, MAX-MIN Record, Relative Measurement
- 1000V AC T-RMS/DC
- 1000A AC T-RMS/DC
- 100mF Capacitance, 100kHz Frequency, 40MOhms Resistance
- Temperature upto 1000°C using K type sensor
- Temperature measurement in °C / °F scales

GENERAL SPECIFICATIONS

Clamp Size	Opening 1.4" (35mm) approx
Diode Test	Test current of 0.3mA typical; Open circuit voltage 3.2V DC typical.
Continuity Check	Threshold ≤ 50 ; Test current < 0.5 mA
Low Battery Indication	"  " is displayed.
Over Range Indication	" OL " is displayed
Measurements Rate	2per second, nominal
Input Impedance	10M Ω (VDC and VAC)
Display	4000 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% upto 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 600V
Battery	Three "AAA" 1.5V Batteries
Auto OFF	Approx. 30 minutes
Safety	For indoor use and in accordance with Over voltage Category II, Pollution Degree 2. Category II includes local level, appliance, portable equipment, etc., with transient over voltages less than Over voltage Cat.III



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SPECIFICATIONS

Function	Range & Resolution	Accuracy (% of reading)
AC Current (50/60Hz)	400.0AAC	± (2.5% + 8 digits)
	1000AAC	± (2.8% + 8 digits)
DC Current	400.0ADC	± (2.5% + 5 digits)
	1000ADC	± (2.8% + 5 digits)
DC Voltage	400.0mV DC	± (0.5% + 5 digits)
	4.000V DC	± (1.5% + 2 digits)
	40.00V DC	
	400.0V DC	
	1000V DC	
AC Voltage (50-400Hz)	4.000V AC	± (1.5% + 5 digits)
	40.00V AC	
	400.0V AC	
	1000V AC	
Resistance	400.0Ω	± (1.0% + 4 digits)
	4.000kΩ	± (1.5% + 2 digits)
	40.00kΩ	
	400.0kΩ	± (2.5% + 3 digits)
	4.000MΩ	
	40.00MΩ	± (3.5% + 5 digits)
Capacitance	40.00nF	± (4.0% reading + 20 digits)
	400.0nF	± (3% reading + 5 digits)
	4.000μF	
	40.00μF	
	400.0μF	± (5% reading + 5 digits)
	4.000mF	
	40.00mF	± (5% reading + 8 digits)
	100.0mF	+ (5% reading + 15 digits)
Frequency Sensitivity: ≥ 5V RMS	9.999Hz - 99.99kHz	± (1.2% reading + 5 digits)
Duty Cycle Sensitivity: ≥ 5V RMS	10.0% to 90.0%	± (1.2% reading + 2 digits)
Temp (type-K) (probe accuracy not included)	-20.0 to 1000°C	± (3% reading + 5°C)
	-4.0 to 1832°F	± (3% reading + 9°F)