

AC/DC TRMS Clamp Meter Model PRO 474

INTRODUCTION

METRAVI PRO 474 is the most complete AC T-RMS / DC clamp meter with data logger and all the features that you could possibly think of. No need to remove the display to get remote display of readings, just connect this clamp meter via Bluetooth 4.0 to the smartphone using the free App, to display data at remote location and to record. The recorded data can then be converted to reports and texts can be added to send via email.

The Trend Capture facility is available not only in the instrument but also on the smart phone, simultaneously. The data logging can also be done on both the instrument as well as the smartphone, and can be done for all parameters that the instrument can measure.

The flexible current clamp provided can measure up to 3000A AC. The instrument confirms to CAT-IV 600V, CAT-III 1000V, CE and IEC-61010-1. Inrush Current measurement, VFD AC T-RMS Voltage measurement and Lo-Z Voltage measurements are available. AC+DC Voltage measurement can also be accomplished.

The instrument features a colour TFT LCD Display.

- Professional T-RMS AC/DC Clamp Meter
- 6000 Counts Colour TFT LCD Display
- Bluetooth 4.0
- Flexible Clamp to measure up to 3000A AC
- Confirms to CAT-IV 600V, CAT-III 1000V, CE, IEC-61010-1
- 1000V AC/DC Protection in all ranges
- 34 mm Clamp Jaw Dia
- Auto Power Off
- No need to remove display, get the display right on your mobile phone using Bluetooth 4.0
- Data Logging Facility in the instrument and over Bluetooth on the mobile
- Phone Inrush Current, VFD AC T-RMS Voltage, Lo-Z Voltage
- Non-contact Voltage Detector
- Flashlight in the jaw to access dark areas
- Double-injection Housing, providing double insulation
- Peak Mode, MAX/MIN Record, Relative Measurement
- Trend Capture for Voltage and Current within the instrument and simultaneously on smart phone.
- 1000V AC T-RMS/DC
- 1000A AC T-RMS/DC
- AC+DC Voltage
- 3000A AC Through Flexible Clamp (Flexible Clamp Included)
- 100mF Capacitance, 100kHz Frequency, 60M, Ohms Resistance
- Temperature up to 1000 Degree C using K-type sensor
- Temperature measurement in C / F scales
- Free App available.
- Report generation with trend capture and data table
- Report can be exported and shared right from the App from your phone
- Save and Retrieve Data



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GENERAL SPECIFICATIONS

Clamp Jaw Opening	1.3" (34mm) approx.
Display	3-5/6 digits (6000counts) TFT Colour LCD
Continuity Check	Threshold 50Ω Test current <0.5mA.
Diode Test	Test current of 0.3mA typical : Open circuit voltage <3.3V DC typical.
Over-Range Indication	"OL" display
Measurement Rate	3 readings per second, nominal
Peak	Captures peaks >1ms
Temperature Sensor	Type K thermocouple
Input Impedance	10M VDC and 9M VAC
AC Response	True RMS (AAC and 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. (2000 meters) maximum.
Battery	Three (3)AAA battery
Auto Power Off	After approx.15-60 minutes.
Safety	For indoor use and in accordance with the requirements for double insulation to IEC1010-1 (2001): EN61010-1 (2001) Over voltage Category III 1000V and Category IV 600V, Pollution Degree 2.



**TREND
CAPTURE**
on Clamp
and
SmartPhone
App



SPECIFICATIONS

Accuracy calculated as [% reading+(num.digits* resolution)]
at 18 to 28°C; <75%HR.

DC Voltage

Range	Resolution	Accuracy
600.0mV	0.1mV	±(0.5% +8 digits)
6.000V	0.001V	±(1.5% +5 digits)
60.00V	0.01V	
600.0V	0.1V	
1000V	1V	

Input Impedance : >10MΩ

Protection Against Overcharge : 1000V AC/DC RMS

AC TRMS Voltage (50Hz-400Hz)

Range	Resolution	Accuracy
6.000V	0.001V	±(1.5% +5 digits)
60.00V	0.01V	
600.0V	0.1V	
1000V	1V	

Input Impedance : >9MΩ

Protection Against Overcharge : 1000V DC/AC rms.

Accuracy Specified from : 10% to 100% of the measuring range,
sine wave

Accuracy PEAK Function : ±10%rdg, PEAK response time : 1ms
VFD AC Voltage reading for reference only.

AC/DC TRMS Clamp Meter Model PRO 474

LowZ AC TRMS Voltage (50Hz-400Hz)

Range	Resolution	Accuracy
6.000V	0.001V	±(3.0% + 40 digits)
60.00V	0.01V	
300.0V	0.1V	

Input Impedance : < 300kΩ

Protection Against Overcharge : 1000V DC/AC RMS.

Accuracy Specified from : 10% to 100% of the measuring, rang, sine wave.

DC Current

Range	Resolution	Accuracy
600.0A	0.1A	±(2.5% + 5 digits)
1000A	1A	±(2.8% + 5 digits)

Protection Against Overcharge : 1000A DC/AC RMS

AC TRMS Current (50Hz-60Hz)

Range	Resolution	Accuracy
600.0A	0.01A	±(2.5% + 5 digits)
1000A	1A	±(2.8% + 5 digits)

Protection Against Overcharge : 1000A DC/AC RMS

Flexible Coil Current (50Hz-400Hz)

Range	Resolution	Accuracy
30.00A	0.01A	±(3.0% + 5 digits)
300.0A	0.1A	
3000A	1A	

Protection Against Overcharge : 3000A DC/AC RMS

Accuracy Specified from : 10% to 100% of the measuring range, sine wave.

Resistance and Continuity Test

Range	Resolution	Accuracy
600.0Ω	0.1Ω	±(1.0% + 10 digits)
6.000kΩ	0.001kΩ	±(1.5% + 5 digits)
60.00kΩ	0.01kΩ	
600.0kΩ	0.1kΩ	
6.000MΩ	0.001MΩ	±(2.5% + 5 digits)
60.00MΩ	0.01MΩ	±(3.5% + 10 digits)

Buzzer : <50Ω

Protection Against Overcharge : 1000V DC/AC RMS.

AC+DC TRMS Voltage (50Hz-400Hz)

Range	Resolution	Accuracy
6.000V	0.001V	±(2.5% + 20 digits)
60.00V	0.01V	
600.0V	0.1V	
1000V	1V	

Input Impedance : > 10MΩ

Protection Against Overcharge : 1000V DC/AC RMS.

Diode Test

Test Current <1.5mA
Max voltage with open circuit : 3.3V DC

Frequency (Electronic Circuits)

Range	Resolution	Accuracy
9.999Hz-99.99kHz	0.01-10Hz	±(1.2% + 5 digits)

Protection Against Overcharge : 1000V DC/AC RMS.

Sensitivity : >5Vrms (at 20% - 80% duty cycle)

Duty Cycle

Range	Resolution	Accuracy
10.0% - 90.0%	0.1%	±(1.2% + 8 digits)

Pulse Frequency Range : 40Hz - 10kHz

Pulse Amplitude : ±5V (0.1ms - 100ms)

Capacitance

Range	Resolution	Accuracy
60.00nF	0.01nF	±(4.0% + 20 digits)
600.0nF	0.1nF	±(3.0% + 8 digits)
6.000μF	0.001μF	
60.00μF	0.01μF	
600.0μF	0.1μF	±(5.0% + 8 digits)
6000μF	1μF	±(5.0% + 20 digits)
60.00mF	0.01mF	
100.0mF	0.1mF	

Protection Against Overcharge : 1000V DC/AC RMS.

Temperature with K-Type Probe

Range	Resolution	Accuracy
-40.0 to 600.0°C	0.1°C	±(1.5% + 3°C)
600 to 1000°C	1°C	
-40.0 to 600.0°F	0.1°F	±(1.5% + 5.4°F)
600 to 1800°F	1°F	

Protection Against Overcharge : 1000V DC/AC RMS.

Instrument accuracy without prob; Specified accuracy with stable environmental temperature at ±1°C

For long-lasting measurements, reading increases by 2°C