



SPECIFICATIONS

- Accurate AC digital clamp meter for leakage current measurement
- 10 μ A high resolution on 40mA range
- Shield transformer jaws to minimize the effect of external stray magnetic field
- Large jaw with 30 mm diameter
- Five Ranges (40mA, 400mA, 4A, 40A, 100A) for all application
- A filter circuit is designed to eliminate the effect of high frequency noise and harmonics by setting the frequency selector switch at the 50/60 Hz position for AC current measurement
- Large 3 3/4 digits LCD
- Fast bargraph display (20 times/sec) for transient observation
- Continuity and frequency measurements
- Max/Min and Data Hold functions
- Relative Measurement
- 600V overload protection for ohms measurement
- Easy single rotary switch for any function selection

GENERAL SPECIFICATIONS

Conductor size	30 mm max. (approx)
Battery Type	Two 1.5V SUM - 3
Display	3 $\frac{3}{4}$ LCD with 40 segment analog bargraph
Range Selection	Manual
Overload indication	Left most digit blinks
Power Consumption	10mA (approx.)
Low battery indication	" \pm " is indicated
Sampling Time	2 times/sec. (display) 20 times/sec. (bargraph)
Operating Temperature	-10°C to 50°C
Operating Humidity	Less than 85% relative
Storage Temperature	-20°C to 60°C
Storage humidity	Less than 85% relative
Dimension	210 mm (L) x 62mm (W) x 35.6" (H) x 8.3" (L) x 2.4" (W)
Weight	200 g (battery included)
Accessories	Carrying bag x 1 Users manual x 1 1.5V battery x 2



ELECTRICAL SPECIFICATIONS

AC current

Range	Resolution	Accuracy	
		50/60 Hz	Wide (40 - 1KHz)
40mA	10 μ A	$\pm 1.0\% \pm 3$ dgts	$\pm 1.5\% \pm 5$ dgts
400mA	100 μ A	$\pm 1.0\% \pm 3$ dgts	$\pm 1.5\% \pm 5$ dgts
4A	1mA	$\pm 2.0\% \pm 10$ dgts	$\pm 1.5\% \pm 5$ dgts
80A	10mA	$\pm 2.0\% \pm 10$ dgts	$\pm 1.5\% \pm 5$ dgts
40mA	100mA	$\pm 2.5\% \pm 10$ dgts	$\pm 1.5\% \pm 5$ dgts
80 - 100A ¹	100mA	$\pm 5.0\% \pm 100$ dgts	$\pm 1.5\% \pm 5$ dgts

¹Though the meter can display up to 400a it is not calibrated beyond 100a

AC Voltage (input impedance: 10M Ω)

Range	Resolution	50/60 Hz	40 - 1KHz	Overload protection
400V	0.1V	$\pm 1.0\% \pm 2$ dgts	< 38.0 Ω	AC 600V

Resistance (Ω) and Continuity: (Open voltage 0.4V)

Range	Resolution	Accuracy	Beeping	Overload protection
40 - 400 Ω	0.1 Ω	$\pm 1.0\% \pm 2$ dgts	< 38.0 Ω	AC 600V

TECHNICAL SPECIFICATIONS

Function	Range & Resolution	Accuracy (% of reading)
DC Current	4.000 A DC	± (2.8% + 10 digits)
	80.0 A DC	± (3% + 8 digits)
AC Current (50/60Hz)	4.000 A AC	± (3.0% + 10digits)
	80.0A AC	± (3.0% + 8 digits)
DC Voltage	400.0 mV DC	± (1.0% + 15 digits)
	4.000 V DC	± (1.0% + 3 digits)
	40.00 V DC	± (1.5% + 3 digits)
	400.0 V DC	
	600 V DC	± (2.0% + 3 digits)
AC Voltage (50/60Hz)	400.0 mV AC	± (1.0% + 30 digits)
	4.000 V AC	
	40.00 V AC	± (2.0% + 5 digits)
	400.0 V AC	
	600 V AC	± (2.0% + 5 digits)
Resistance	400.0 Ω	± (1.0% + 4 digits)
	4.000KΩ	
	40.00KΩ	± (1.5% + 2 digits)
	400.0KΩ	
	4.000MΩ	± (2.5% + 3 digits)
	40.00MΩ	± (3.5% + 5 digits)
Capacitance	40.00nF	±(5.0% reading + 30digits)
	400.0nF	±(3.0% reading + 5 digits)
	4.000μF	±(3.5% reading + 5 digits)
	40.00μF	
	100.0μF	±(5.0% reading + 5 digits)
	Frequency	5.000Hz
50.00Hz		±(1.2% reading + 2 digits)
500.0Hz		Sensitivity: 10Vrms
5.000kHz		min. @ 20% to 80% duty cycle
50.00kHz		
500.0kHz		
5.000MHz		
10.00MHz		
Duty Cycle	0.5 to 99.0%	±(1.2% reading + 2 digits)
	Pulse width: 100μs - 100ms, Frequency: 5Hz to 150kHz; Sensitivity: 10Vrms min.	
Analog output: (for ACA & DCA range), 10mV/Amp (20KHz at ±3dB) Accuracy: ± (4.5% reading + 1mV), Output impedance: approx 3KΩ		

GENERAL SPECIFICATIONS

Input Limits	
Function	Maximum Input
A AC, A DC	80A
V DC, V AC	600V DC/AC
Resistance, Diode Continuity, Frequency, Duty Cycle, Capacitance Test	250V DC/AC



Clamp size Diode Test

Opening 0.9" (23mm) approx
Test current of 0.3mA typical;
Open circuit voltage 1.5V DC typical
Threshold <150Ω;
Test current < 1mA

Continuity Check

" \square " is displayed

Low Battery Indication

"OL" is displayed

Overrange Indication

Measurements Rate

2 per second, nominal

Input Impedance

7.8 MΩ (VDC and VAC)

Display

3½ Digits, 4000 counts Backlit LCD

Operating Temperature

14 to 122°F (-10 to 50°C)

Storage Temperature

-22 to 140°F (-30 to 60°C)

Relative Humidity

90% (0°C to 30°C); 75% (30°C to 40°C); 45% (40°C to 50°C)

Altitude Operating

3000m; Storage 10,000m

Operating Altitude

7000 ft. (2000 meters) maximum.

Over voltage

Category III 600V

Battery

Two 1.5V "AAA" Batteries

Auto OFF

Approx. 30 minutes

Dimensions/Weight

200 x 50 x 35 mm / 200g

Data hold to freeze the displayed data

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

INTRODUCTION


Metravi 4673 mini digital clamp meter features high reliability, safety, precision and compact design. Its resolution ratio is 1mA. AC/DC Current has maximum range of 100A AC/DC; particular VFC start mode. Entering this mode can accurately measure voltage and current which has VFC frequency conversion. Voltage or current response display is T-RMS. Whole range overload protection, reliable measurement accuracy and unique design makes it an outstanding new generation electrician/electric power measurement instrument.

SAFETY GUIDELINES

This Meter complies with EN 61010-1, 61010-2-032, 61010-2-033, Pollution Degree 2, Measurement Category : (CAT II 600V, CAT II 300V) and Double Insulation standards.

Conform to UL STD. 61010-1, 61010-2-032, 61010-2-033 Certified to CSA STD. C22.2 NO. 61010-1 IEC STD 61010-2-032, 61010-2-033

GENERAL SPECIFICATION

- Maximum faulty operation protection voltage between input terminal and earthing is 600V.
- Maximum overload protection for clamp head terminal : 100A
- Maximum display : 2000 Counts, update 2~3 times per second.
- Over range displays "OL"
- Diode : Approx. 3.2V
- Range : Automatic (exclusive of electricity gear)
- Polarity : Automatic
- Work Temperature : 0°C ~ 40°C
- Relative Humidity : 0°C ~ 30°C : 75%, 30°C ~ 40°C : 50%
- Storage Temperature : -10°C ~ 50°C
- Electromagnetic Compatibility :
In 1V/m radio frequency field : over all frequency=designated precision +5%, radio frequency field anpve 1V/m has no designated index.
- Work Altitude : 0 ~ 2000m
- Build-in Battery : AAA 1.5Vx2 pieces
- Low Battery : LCD displays "  "
- Dimensions : approx. approx. (175x60x33.5)mm, maximum clamp head size is 17mm.
- Weight : approx. 170g (including battery)



TECHNICAL SPECIFICATION

Accuracy : $\pm(a\% \text{ reading} + b \text{ word count})$, warranty period is 1 year.

Environment temperature : 23°C \pm 5°C (73.4°F \pm 9°F) relative humidity: \leq 75%

DC Voltage

Range	Resolution	Accuracy
200.0mV	0.1mV	$\pm (0.7\% + 5)$
2.000V	1mV	$\pm (0.7\% + 3)$
20.00V	10mV	
200.0V	100mV	
600V	1V	

 Input resistance is about 10M Ω .

 Maximum input voltage : \pm 600V

Resistance


Range	Resolution	Accuracy
200.0 Ω *	0.1 Ω	$\pm (1.0\% + 2)$
2.000 k Ω	1 Ω	
20.00 k Ω	10 Ω	
200.0 k Ω	100 Ω	
2.000 M Ω	1 k Ω	$\pm (1.2\% + 3)$
20.00 M Ω	10 k Ω	


Open-circuit voltage is about 1V

Overload protection : 600V-RMS

AC Voltage (T-RMS)



Range	Resolution	Accuracy
2.000V	1mV	$\pm (1.0\% + 3)$
20.00V	10mV	
200.0V	100mV	$\pm (1.0\% + 3)$ V.F.C. mode : $\pm (4.0\% + 3)$
600.0V	1V	$\pm (1.2\% + 3)$ V.F.C. mode : $\pm (4.0\% + 3)$

 Input resistance: 10 M Ω in average.

 Maximum input voltage : 600Vrms

- Show true virtual value. Frequency response : 45 ~ 400Hz
- Accuracy guarantee range : 5 ~ 100% range, short circuit allows <10 residue readings.

Continuity & Diode

Range	Resolution	Accuracy
	0.1 Ω	Resistance value for circuit disconnet : ≥150 Ω buzzer makes no sound; Resistance value for circuit disconnet : ≥10 Ω buzzer beeps continuously.
	1mV	Open circuit voltage is 3.2V; normal voltage for silicon PN junction is 0.5~0.8V.

 Overload protection : 600V-RMS


Capacitance

Range	Resolution	Accuracy
2nf	1pF	± (4% +10)
20.00nF ~200.0μF	10pF~100nF	± (4% +5)
2.000mF ~20.00mF	1μF~10μF	±10%

 Overload protection : 600V-RMS


DC Ampere

Range	Resolution	Accuracy
2.000A	1mA	±(2%+8)
20.00A	10mA	±(2%+3)
100.0A	100mA	±(2%+3)

 Overload protection : 100A

AC Ampere (T-RMS)

Range	Resolution	Accuracy
2.000A	1mA	±(3%+10) V.F.C mode : ± (4.0% +10)
20.00A	10mA	±(2.5%+8) V.F.C mode : ± (4.0% +10)
100.0A	100mA	±(2.5%+5) V.F.C mode : ± (4.0% +10)

 Overload protection : 100A

- Accuracy warranty coverage : 5~100% range, 2A open circuit allows <20 resdue readings.
- Displays are true valid value. Frequency response: 50 ~ 60Hz.
- Non-sinusoidal wave counts add error by crest factor :



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