

INTRODUCTION

The Metravi DT-3250A is a dual impedance, TRMS, Digital Clamp Meter, integrating a variety of measurements like AC/DC Voltage, AC/DC Current, Frequency, Duty Ratio, Resistance, Capacitance, Temperature, Diode, Continuity, NCV, VFD, Inrush Current, and more.

Features functions like last Data Hold, LED Flashlight, Max./Min./Relative value, Celsius/Fahrenheit degrees, and Zero key.

GENERAL SPECIFICATIONS

- 6000 Counts Backlit LCD, Double Colour, Dual Display
- 40mm Jaw, wide enough to measure without disturbing circuits
- Auto Range mode
- NCV: Non-contact Voltage detection
- Live Line detection
- VFD Voltage & Current measurement
- Inrush Current measurement
- High Input Impedance Voltage measurement, approx 10M Ω
- Low Input Impedance Voltage (LoZ) measurement, approx 300k Ω
- Zero/REL button to reset the meter
- Safe & reliable: designed as per and conforms to IEC61010-1, CAT III 1000V, CAT IV 600V
- Auto power-off
- Low Battery indication
- Over Range indication
- Input polarity indication
- Operating Environment: 0-40°C, <80% RH, <10°C non condensing, Altitude < 2000m.
- Storage Environment: -10-60°C <70% RH (remove the battery)
- Power: 3 x 1.5V AAA alkaline batteries



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TECHNICAL SPECIFICATIONS

The accuracy applies within one year after the calibration. Reference condition: the environment temperature 18°C to 28°C, the relative humidity is no more than 80% . Accuracy: \pm (% reading + word)

DC CURRENT

Range	Resolution	Accuracy
60A	0.01A	\pm (2.5%reading+8)
600A	0.1A	
1000A	1A	

MAX current : 1000A

NOTE : Press ZERO key to clear before measurement.

AC CURRENT (T-RMS)

Range	Resolution	Accuracy
60A	0.01A	\pm (2.5%reading+8) VFD: \pm (5.0% reading+10) INRUSH: \pm (5.0% reading+10)
600A	0.1A	
1000A	1A	

MAX current : 1000A ; True RMS

Frequency range : 0.1~600A : 40Hz~400Hz ;
600~1000A : 40Hz~60Hz

DC VOLTAGE

Range	Resolution	Accuracy
600mV	0.01mV	\pm (0.5%reading+5)
6V	0.001V	
60V	0.01V	
600V	0.1V	
1000V	1V	\pm (0.8%reading+5)

Input impedance : 10M Ω (LoZ:300k Ω)

Overload protection: AC750V/DC1000V

Maximum input voltage: AC750V/DC1000V

NOTE : In the small voltage range, when the probe is not connected to the measuring circuit, the meter display reading may not be zero, which is normal and will not affect the normal measurement.

AC VOLTAGE (T-RMS)

Range	Resolution	Accuracy
600mV	0.01mV	\pm (0.8%reading+5)
6V	0.001V	
60V	0.01V	
600V	0.1V	
750V	1V	\pm (1.0%reading+5)
VFD(750V)	0.1V	\pm (2.0%reading+5)

Input impedance : 10M Ω (LoZ:300k Ω)

Overload protection: AC750V/DC1000V

Maximum input voltage: AC750V/DC1000V

Frequency range: 40Hz~1kHz; True RMS

NOTE : In the small voltage range, when the probe is not connected to the measuring circuit, the meter display reading may not be zero, which is normal and will not affect the normal measurement.

RESISTANCE

Range	Resolution	Accuracy
600 Ω	0.1 Ω	\pm (1.0%reading+5)
6k Ω	0.001k Ω	
60k Ω	0.01k Ω	
600k Ω	0.1k Ω	
6M Ω	0.001M Ω	
60M Ω	0.01M Ω	

Overload protection: 250V

CAPACITANCE


Range	Resolution	Accuracy
10nF	0.001nF	\pm (4.0%reading+5)
100nF	0.01nF	
1000nF	0.1nF	
10 μ F	0.001 μ F	\pm (5.0%reading+10)
100 μ F	0.01 μ F	
1000 μ F	0.1 μ F	
10mF	0.001mF	
100mF	0.01mF	

Overload protection: 250V


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TECHNICAL SPECIFICATIONS

CONTINUITY

	<approx. 30Ω, the buzzer sounds and the LED light on.	Test Voltage Approx. 1V. Overload protection : 250V.
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DIODE

	It displays the approximate forward voltage value of the diode.	Forward DC current is about 1.5mA. Reverse DC voltage is about 3V. Overload protection: 250V.
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FREQUENCY/DUTY

Range	Resolution	Accuracy
10Hz	0.001Hz	± (1.0%reading+3)
100Hz	0.01Hz	
1000Hz	0.1Hz	
10kHz	0.001kHz	
100kHz	0.01kHz	
1000kHz	0.1kHz	± (3.0%reading+3)
10MHz	0.001mHz	
1~99%	0.1%	

Overload protection :
250V; Hz/Duty :

1. Range : 0 ~ 10MHz

2. Voltage sensitivity : 0.5~10V AC (As the frequency
increases, the voltage should increase accordingly.)

Through mode V :

1. Range : 10Hz ~ 10 kHz

2. Voltage sensitivity : >0.5V AC (As the frequency
increases, the voltage should increase accordingly.)

Clamp measuring frequency :

1. Range : 10Hz ~ 1 kHz

2. Current sensitivity : >20A (As the frequency increases,
the current should increase accordingly.)



TEMPERATURE

	Resolution	Accuracy	
°C	1°C	-20°C~ 0°C	± 3°C
		0°C ~ 400°C	± 1.0% or ± 2°C
		400°C ~ 1000°C	± 2.0%
°F	1°F	-4°F~ 32°F	± 6°F
		32°F~ 752°F	± 1.0% or ± 4°F
		752°F~ 1832°F	± 2.0%

NOTE : The above precision does not include the error of thermocouple probe.

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