# **METRAVI**<sup>®</sup> Digital AC/DC Clamp Meter DT-8250 & DT-9250

#### INTRODUCTION

The Metravi DT-8250 & DT-9250 are Digital AC/DC clamp meters with big jaw dia which can be used anywhere that high current and voltage measurements are needed.

#### DT-9250 is a T-RMS AC/DC Clamp Meter.

The unique feature of the DT-8250 & DT-9250 is that they can measure Frequency through the Clamp Jaw, so they can measure frequency at high current as well. It becomes very safe to take frequency measurements as you do not need to need to touch high current lines with probes to get frequency measurements. They can also measure high frequency through the terminals.

With the DT-8250 & DT-9250 you can safely and accurately measure AC/DC current up-to 1000V, AC/DC Current up-to 2000A, Resistance, Frequency (both through the clap jaw and terminal), Temperature, Capacitance, Duty Cycle, Peak of AC Current, Diode and Continuity. With features like Data Hold, Peak Hold, Auto Power Off and Backlit LCD Display of 4000 Counts.

#### **GENERAL SPECIFICATIONS**

Clamp Jaw Opening	:	2" (52mm) approx
Display	:	3-3/4 digits (4000 counts) Backlit LCD
<b>Continuity Check</b>	:	Buzzer sound at less than $(60\pm30)\Omega$
Diode Test	:	Test current of 0.5mA typical; Open circuit voltage <2VDC typical
Low Batterry Indication	:	' 🛨 🗕 ' is displayed
<b>Over-Range Indication</b>	:	'OL' display
Measurement Rate	:	2 readings per second, nominal
PEAK	:	Captures peaks > 1ms
Temperature Sensor	:	Type K thermocouple
Input Impedance	:	10MΩ (VDC and VAC)
<b>Operating Temperature</b>	:	41°F to 104°F (5°C to 40°C)
Storage Temperature	:	-4°F to 104°F (-20°C to 60°C)
Operating Humidity	:	Max 80% up to 87°F (31°C) decreasing linearly to 50% at 104°F (40°C)
Storage Humidity	:	<80%
Operating Altitude	:	7000ft. (2000meters) maximum
Battery	:	One (1) 9V Battery
Auto Range	:	Auto/Manual
Auto Power OFF	:	After approx. 15 minutes
Dimensions & Weight	:	27cm (H) x 10cm (W) x 4cm (D), 600 Grams Approx
Safety	:	For indoor use and in accordance with the requirements for double insulation to IEC 1010-1 (2001) : EN61010-1 (2001) Over Voltage Category III 1000V and Category IV 600V, Pollution Degree

## THE QUALITY LEADER

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\*Technical Specifications & Appearance are subjet to change without prior notice

METRAVI

00A AC/DC

RUE RMS

DT-9250

CE

#### **SPECIFICATIONS**

#### DC Voltage

Range	Accuracy (% of reading + digits)	Resolution
400mV	± (1% + 10 digt)	0.1mV
4V		1mV
40V		10mV
400V	± (1% + 3 digt)	100mV
1000V		1V

Input Impedance :  $10M\Omega$ 

Over Range Protection : 1000V DC

#### AC Voltage (T-RMS for DT-9250 Only)

Range	Accuracy (% of reading + digits)	Resolution
4V	± (1.2% + 5 digt)	1mV
40V		10mV
400V		100mV
1000V		1V

Input Impedance :  $10M\Omega$ Over Range Protection: 1000V AC Frequency Response : 50Hz ~ 400Hz

### AC Current (T-RMS for DT-9250 Only)

Range	Accuracy (% of reading + digits)	Resolution
400A	± (3.0% +2A)	100mA
2000A	± (3.5% + 5 digt)	1A

Over Range Protection : Maximum input 2000A Frequency Response : 50Hz ~ 60Hz

#### **DC Current**

Range	Accuracy (% of reading + digits)	Resolution
400A	± (3.0% + 1A)	100mA
2000A	± (3.5% + 5 digt)	1A

Over Range Protection : Maximum input 2000A

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#### Resistance

Range	Accuracy (% of reading + digits)	Resolution
400Ω	± (1.0% + 4 digt)	0.1Ω
4kΩ	± (1.5% + 4 digt)	1Ω
40kΩ		10Ω
400kΩ		100Ω
4MΩ		1kΩ
40MΩ	± (2.0% + 4 digt)	10kΩ

**Over Range Protection : 600V RMS** 

#### Frequency (Auto-Ranging) Frequency through test leads when meter is set to AC voltage

Range	Accuracy (% of reading + digits)	
10Hz to 100kHz	± 1.0% ±5 digt	

Input Impedance : 1000V AC Sensitivity : >2.7V AC

#### Frequency (Auto-Ranging) Frequency through jaws when meter is set to AC Current

Range	Accuracy (% of reading + digits)
40Hz to 1kHz	± 1.0% ±5 digt

Input Impedance : 2000V AC Sensitivity : >150A

#### Duty Cycle

Range	Accuracy (% of reading + digits)	Resolution
(0.1% to 99.9%)	± (1.2% + 5 digt)	0.1%

**Over Range Protection : 600V RMS** 

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#### Temperature

Range	Accuracy (% of reading + digits)	Resolution
(-20 to 1000°C)	± (2.0% + 5°C)	0.1°C
(-4 to 1832°F)	± (3.0% + 9°C)	0.1°F

Sensor : K Type banana play Over Range Protection : 600V RMS

#### **Peak of AC Current**

Range	Accuracy (% of reading + digits)	Resolution
400A	± (4.0% + 5 digt)	100mA
2000A	± (4.0% + 5 digt)	1A

Frequency Response : 50Hz ~ 60Hz

#### Capacitance

Range	Accuracy (% of reading + digits)	Resolution
4nF	± (5.0% + 30 digt)	0.1nF
40nF	± (5.0% + 20 digt)	1nF
400nF	± (3.5% + 10 digt)	10nF
4µF		100nF
40µF	± (5.0% + 10 digt)	1μF
400µF		10µF

**Over Range Protection : 600V RMS** 

#### Diode

Testing Condition	Reading
Forward DCA is approx. 0.5mA, backward Voltage is approx. 2V	Forward voltage drop of Diode

Over Range Protection : 600V RMS

# THE QUALITY LEADER

#### Continuity

Testing Condition	Reading
Open voltage is approx. 0.5V	Buzzer makes a long sound, While resistance is less than (60±30Ω)

Over Range Protection : 600V RMS



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