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DIGITAL AC CLAMP METER

DT-1150A

INTRODUCTION

DT-1150A Digital Clamp Meter has a 3-1/2 digit 2000 Count LCD display and is powered by two AAA Batteries. The unit adopts full function overload protection circuit and can be used for the measurement of AC/DC voltage, AC current, Resistance, Capacitance, Frequency and Temperature. It has a sturdy built and adopts a rotary switch that integrates Power on/off, Function selection and Range selection. It is handy and portable making it the ideal tool for electrical measurement.

SAFETY

The DT- 1150A is in compliance with safety standards, including IEC61010-1, IEC 61010-2-032, CAT-III 600V and Pollution Degree II. Always ready the manual carefully before using the device.

FEATURES

Display : 3 ½ Digit 2000 counts LCD, with auto polarity conversion
Over Range indication : OL will be shown on the LCD
Hold : Data hold on
Low battery indication : " " will be displayed on screen
AC Voltage : 2V / 20V / 200V / 750V
DC Voltage : 200mV / 2V / 20V / 200V / 1000V
AC Current : 20A / 200A / 1000A
Capacitance : 9.999nF / 99.99nF / 999.9nF / 9.999µF / 99.99µF / 999.9uF
Frequency : 9.999Hz / 99.99Hz / 999.9Hz / 9.999kHz / 99.99kHz / 999.9kHz / 9.999MHz
Resistance : 200Ω / 2kΩ / 20kΩ / 200kΩ / 2MΩ /
Temperature : 20°C ~ 750°C
Diode and Continuity test
Jaw Opening : Approx. 40mm
Overload Protection
CE CAT III 600V
Dimension : 250(L) × 97(W) × 48(H) mm
Weight : 345gm approx.(including battery)
Power Supply : 3V (2pcs AAA Batteries)
Working Environment : 0~40°C, 45% ~ 70% RH Non Condensing (When temperature is less than 10°C)
Storage Environment : -10°C~50°C, RH is less than 80%
Accessories: User Manual, Test Leads, K-Type Thermocouple, 2pcs battery, Soft carry case

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SPECIFICATIONS

AC Current Measurement

Range	Accuracy	Resolution
20A	±(3.0% + 8 digits)	0.01A
200A		0.1A
1000A		1A

Frequency Response : 50Hz/60Hz
Display : RMS of a Sine Wave; Average value responding
Overload Protection : 1200A (Input duration Max. 60 Seconds)

AC Voltage Measurement

Range	Accuracy	Resolution
2V	±(1.5% + 5 digits)	0.001V
20V		0.01V
200V		0.1V
750V		1V

Frequency Response : 50Hz/400Hz

Input Resistance : 10MΩ
Overload Protection : DC 1000V / AC 750V

DC Voltage Measurement

Range	Accuracy	Resolution
200mV	±(0.8% + 5 digits)	0.1mV
2V		0.001V
20V		0.01V
200V		0.1V
1000V		1V

Input Resistance : 10MΩ
Overload Protection : DC 1000V / AC 750V

Diode Measurement

Range	Resolution	Remark
	1mV	Forward voltage drop is about 2.8V

Resistance Measurement

Range	Accuracy	Resolution
200Ω	±(1.5% + 5 digits)	0.1Ω
2kΩ	±(1.5% + 3 digits)	1Ω
20kΩ		0.01kΩ
200kΩ		0.1kΩ
2MΩ	±(2.0% + 5 digits)	1kΩ

Open circuit voltage : Less than 0.5V
Overload Protection : 500V DC/AC

Frequency Measurement

Range	Accuracy	Resolution
9.999Hz	±(0.3%+4 digits) 3V RMS	0.001Hz
99.99Hz		0.01Hz
999.9Hz		0.1Hz
9.999kHz		1Hz
99.99kHz		10Hz
999.9kHz		100Hz
9.999MHz		1kHz

Overload Protection : 500V DC/AC

Capacitance Measurement

Range	Accuracy	Resolution
9.999nF	± (4% + 40 digits)	1pF
99.99nF	± (4% + 10 digits)	10pF
999.9nF	± (3% + 10 digits)	100pF
9.999uF		1nF
99.99uF		10nF
999.9uF		100nF

Overload Protection : 500V DC/AC

Temperature Measurement

Range	Accuracy	Resolution
-20~750°C	-20~400°C, (1%+10) 401~750°C, (3%+10)	1°C
-4~1400°F	-4~650°F, (1%+10) 651~1400°F, (3%+10)	1°F

Overload Protection : 500V DC/AC

Continuity Test: Test using  range when the resistance under test is less than 100Ω, the buzzer will sound.