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INSTRUMENTS OF TOMORROW

CE RoHS

DIGITAL TRUE RMS MULTIMETER DT115

APPLICATION: This is a 3¾ Digits True RMS multimeter with Backlight. This instrument can be used to measure AC/DC voltage, AC/DC current, Resistance, Capacitance, Frequency, Temperature, Non-Contact Voltage detection and other parameters. It is an ideal tool for the Electricians, Engineers, Laptop & Mobiles & Electronics appliances Repairing Centre, Factories, Industries, Laboratories, Students, Household.

FEATURES:

- Display: 3¾ Digits with 5999 Counts with Backlight.
- Over Range Indication,
- Overload Protection
- Fuse Protection
- Wall Mount & Table Type
- Data Hold Function
- Auto/Manual Ranging
- Non-Contact AC Voltage Detector. **(NCV)**
- Sampling Time 0.4 Seconds
- Auto Power off: 15 mins.
- Operating Temperature & Humidity**:** 0°C To 40°C, 45%-80%RH
- Storage Temperature & Humidity**:** -20°C To 60°C, 45%-80%RH
- **CAT II 600V**
- Power supply: 3 X AAA Batteries.
- Display Size: 47 X 30 mm
- Unit Size**:** 148×69×44mm
- Weight: 190gm Excluding Battery

SPECIFICATION:

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
60mV*	0.01mV	±(1.0% of rdg + 3 digits)
600mV*	0.1mV	
6V	0.001V	±(0.5% of rdg + 5 digits)
60V	0.01V	
600V	0.1V	

-Input impedance: 10MΩ
*The readings displayed on screen would be unstable when the circuit is open. The readings would be stable (≤1 digit) when loads are connected to the circuit.
-Max input voltage: 600V DC

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
60mV*	0.01mV	±(1.2% of rdg + 3 digits)
600mV*	0.1mV	
6V	0.001V	±(1.2% of rdg + 5 digits)
60V	0.01V	
600V	0.1V	±(1.5% of rdg + 5 digits)

-Input impedance: 10MΩ
* The readings displayed on screen would be unstable when the circuit is open. The readings would be stable (≤1 digit) when loads are connected to the circuit.
-True RMS frequency response: 45Hz-1KHz.
-Max input voltage: 600V AC (RMS)

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RESISTANCE

RANGE	RESOLUTION	ACCURACY
600Ω	0.1Ω	±(0.8% of reading + 5 digits)
6kΩ	0.001kΩ	
60kΩ	0.01kΩ	
600kΩ	0.1kΩ	
6MΩ	0.001MkΩ	
60MΩ	0.1MΩ	±(1.5% of reading + 5 digits)

Open-circuit voltage: around 0.4 V
Overload protection: 250V DC or AC (RMS)

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
9.999nF	0.001nF	For reference only
99.99nF	0.01nF	±(3.0% of reading + 3 digits)
999.9nF	0.1nF	
9.999μF	0.001μF	
99.99μF	0.01μF	
999.9μF	0.1μF	
9.999mF	0.001mF	±(4.0% of reading + 5 digits)
99.99mF	0.01mF	

Overload protection: 250V DC or AC (RMS)

DC CURRENT

RANGE	RESOLUTION	ACCURACY
600μA	0.1μA	±(1% of reading + 5 digits)
6000μA	1μA	
60mA	10μA	
600mA	100μA	
10A	10mA	±(2% of reading + 5 digits

Over load Protection: μA and mA mode: fuse FF600mA
A mode: fuse F10A
-When the measuring current is above 5A, the continuous measuring time should not be longer than 10 seconds. After that, you need to stop measuring current for 1 minutes.

AC CURRENT

RANGE	RESOLUTION	ACCURACY
600μA	0.1μA	±(1.5% of reading + 5 digits)
6000μA	1μA	
60mA	10μA	
600mA	100μA	
10A	10mA	±(3% of reading + 5 digits)

Over load Protection: μA and mA mode: fuse FF600mA
A mode: fuse F10A
- **Frequency range:** 50 - 60Hz.
-When the measuring current is above 5A, the continuous measuring time should not be longer than 10 seconds. After that, you need to stop measuring current for 1 minutes.

FREQUENCY

AC Current or AC Voltage mode
Note: This chart refer to the specifications of frequency mode that positioned together with the AC current/voltage modes.

RANGE	RESOLUTION	ACCURACY
60Hz	0.01Hz	±(2% of reading + 5 digits
600Hz	0.1Hz	
6kHz	0.001kHz	
10kHz	0.01kHz	

-**Measuring Range:** 10Hz – 10kHz
-**Input voltage range:** ≥0.2V AC (RMS) (Input voltage increases along with the increase of tested frequency.)

FREQUENCY MODE:

RANGE	RESOLUTION	ACCURACY
99Hz	0.01Hz	±(2% of reading + 5 digits
999.9Hz	0.1Hz	
9.999kHz	0.001kHz	
99.99kHz	0.01kHz	
999.9kHz	0.1kHz	
9.999MHz	1kHz	
99.99MHz	10kHz	

Over load Protection: 250V DC or AC (RMS)
-Measuring Signal: Vpp3V AC Signal

DIODE

RANGE	RESOLUTION	FUNCTION
	0.001	Show the approx. diode forward voltage.

-Forward DC Current is around 1mA
-Reverse DC Current is around 3V
-**Overload Protection:** 250V DC or AC (RMS)

CONTINUITY TEST

RANGE	RESOLUTION	DESCRIPTION
		If continuity of tested circuit is lower than 30Ω, the built-in buzzer would beep

-**Overload Protection**: 250V DC or AC (RMS)
-**Open**- circuit voltage: 1.2V

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DUTY CYCLE:

RANGE	RESOLUTION	ACCURACY
10-95%	0.1%	±2.0%

-Input voltage range: ≥1V AC (RMS)

TEMPERATURE:

RANGE	RESOLUTION	ACCURACY
-30~0°C (-22 ~32°F)	1°C (1°F)	±(3% of reading + 5 digits)
0~400°C (32 ~752°F)		±(3% of reading + 5 digits)
400~1000°C (752 ~1832°F)		±(3% of reading + 5 digits)

This chart only refers to the range, resolution and accuracy of the multimeter.
The influence posed by the k-type thermocouple is not taken into consideration.

SAFETY INFORMATION:

This Multimeter meets the GB/T 13978-92 standards for digital multimeter general technical requirement, the GB4793.1-1995 Standards for digital testing equipment safety requirement and the standards in a pollution degree 2 environment. Safety rating CAT II 600V. For longer product lifetime and better product performance, please use it with caution and maintain it properly.

ACCESSORIES: Instruction Manual, 3 X AAA Batteries, 1Set Test lead, Temperature Probe.