



Certificate No. 956661

Operating Manual



True RMS Digital Multimeters



P/N: 11040110553X



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I. Overview

UT139C DMM is a small auto range, hand-held 3 1/2~3 5/6 bit true RMS multimeter featuring complete function, novel structure, high reliability and safety as well as large screen for display . It can be used for measuring AC/DC voltage and current, variable frequency voltage (V.F.C), resistance, diode, circuit on-off, capacitance, frequency ratio, NCV non-contact AC voltage sensing and so on, is an ideal portable maintenance instrument for users.


II. Accessory

Unpack and take out the instrument, please check following attachments carefully for completeness or intactness. In case of any shortage or damage, please contact with your supplier.

1. An operating instruction manual
2. A test pen (CATIII 600V)
3. Point-type K(nickel chromium/nickel silicon) thermocouple
4. An optional current clamp











III. Safety Operation Regulation

UT139C is designed in compliance with standards such as IEC/EN61010-1, pollution grade II, overvoltage (CATIII600V) and double insulation standards. Please comply with operation instruction specified in the Manual; otherwise the protection provided by the instrument may be affected.

1. It is forbidden to use the product without having rear cap in place, or otherwise there will be electric shocking.
2. Prior to use, inspect the insulation layer of test pen for intactness, confirming no breakage and broken line.
3. When LCD display shows the icon "  ", it is required to replace the battery in time to ensure the measurement accuracy.
4. Range switch shall be set at the correct measurement position.

5. In case of electric shock and damage to the instrument, signals being measured shall not exceed rated limit value.
6. To prevent any damage to the instrument, it is forbidden to change the gear of range switch in measurement.
7. After each measurement, disconnect table pen and the circuit being measured; after the current measurement, especially the measurement of large current, it is necessary to power off before disconnecting table pen and the circuit being measured.
8. In case of electric shock, it is required to be cautious when voltage being measured higher than DC 60V or AC 30Vrms.
9. Do not use the product in high-temperature or high-humidity environment, particularly in the damp environment in where the instrument performance may be severely degraded
10. Refrain from changing the internal wiring in the clamp ammeter to guard against damage to the meter and danger.
11. Clean the meter case with damp cloth and mild detergent rather than the abrasive material and solvent.

IV. Electric Symbol

	Low electricity of internal battery
	Buzzing On-off
	Diode
	AC/DC
	Warning
	Battery to be measured
	Grounding
	Current clamp
	Double Insulation
	Comply with European Union directiv

V. Comprehensive Specification

1. Maximum voltage between input terminal and grounding: see instruction about each input terminal protection voltage.
2. 10A terminal (CE) is equipped with:
F 10A H 600V fast-acting fuse (Φ6x25) mm
3. mA/μA terminal (CE) is equipped with:
UT139C-FF 0.6A H 600V fast-acting fuse (Φ6x32) mm
4. Maximum display: 6000 Refresh 2~3 times per second, display "OL" in case of overrange .
Capacitance and frequency : 9999 count.
Duty ratio: 1~99.9%
Diode: 3.2V, displaying "OL" in case of overrange.
Range: auto/manual
Polarity: auto
Working temperature: 0℃~40℃
Relative humidity: ≤75% when 0℃~30℃, and ≤50% when 30℃~40℃
Storage temperature: -10℃~50℃
5. Electromagnetic compatibility:
In 1V/m radio frequency (RF) field: Overall accuracy=specified accuracy + 5% of range, and no specified index for RF over 1V/m.
6. Operating ASL: 0~2000m
7. Internal battery: AA R6P 1.5V×2
8. Low electricity: LCD displays "".
9. Contour dimension: about (175×81×48.5) mm
10. Weight: about 370g (inclusive of battery)
11. Safety Standard: IEC/EN 61010-1: CATIII600V; Pollution grade II
12. Accreditation: CE

VI. Appearance Structure (See Figure 1)

1. Case
2. LCD Display
- 3/4/7.: Selection buttons
5. Range Switch
6. Measuring input terminal

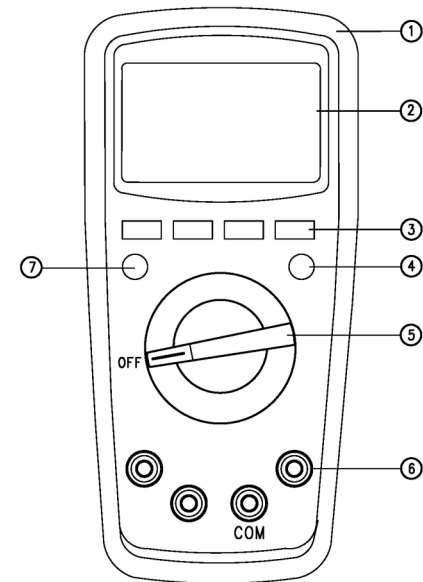
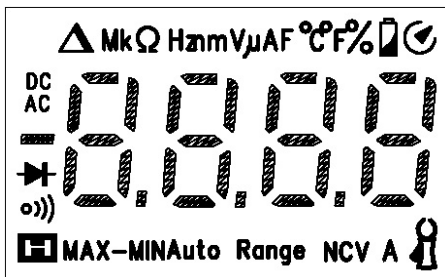


Figure 1

VII. LCD Display (See Figure 2)

LCD:



	Symbol	Instruction
1		Data hold prompt
2		Negative reading
3	AC/DC	AC/DC measurement prompt
4	MAX-MIN	Maximum/Minimum/Maximum-Minimum value measurement prompt
5		Under-voltage internal battery
6	Auto Range	Automatic range prompt

7		Diode measurement prompt
8		Circuit on-off measurement prompt
9	Δ	Relative measurement prompt
10	$\Omega/k\Omega/M\Omega$	Resistance units: Ohm, Kilohm and Megohm
11	Hz/kHz/MHz	frequency units: Hz, kHz, MHz
12	%	Duty ratio measurement unit
13	mV/V	Voltage units: mV, V
14	$\mu A/mA/A$	Current units: μA , mA, A
15	nF/ μF /mF	Capacitance units: nF, μF , mF
16	$^{\circ}C$	Centigrade temperature unit
17	$^{\circ}F$	Fahrenheit temperature unit
18	(EF)NCV	Non-contact AC voltage sensing
19		Auto power-off prompt
20		Current clamp

VIII. Knobs and Keys for Range selection

Range Location	Function
$V\sim$, $V\text{---}$, $V\approx$	AC or DC voltage measurement
Ω	Resistance measurement
$\rightarrow $	Measurement of diode PN junction voltage
$\bullet)$	Measurement of circuit on-off
$\text{---}(\text{---}$	Capacitance measurement
Hz	Frequency measurement
%	Duty ratio measurement
$^{\circ}\text{C}$ / \square	Temperature measurement
$\mu\text{A}\approx$ $\text{mA}\approx$ $10\text{A}\approx$	AC/DC current measurement
$60\text{A}\approx$ H	AC/DC current clamp measurement
NCV	Non-contact AC voltage sensing
OFF	Switch off internal electric power

Button:

RANGE button: it can be used for selecting auto/manual range. After pressing, it will switch one gear of switch, when reading the highest gear, jump to the lowest gear range and in turn. When the time of pressing button is $\geq 2\text{s}$ or switching a range, you'll exit the manual range mode. (Only applicable for $V\approx/\Omega/I\approx$)

MAX/MIN button:

it can be used to automatically enter the manual range mode. In such case, auto shutdown function is disabled and maximum value is displayed, after another pressing on the button, the minimum value will be displayed and values are displayed in turn (maximum value-minimum value). When the time of pressing button is $\geq 2\text{s}$ or switching a range, you'll exit data recording mode (only applicable for $V\approx$, Ω , $I\approx$ and $^{\circ}\text{C}/^{\circ}\text{F}$)

REL button:

it can be used to automatically enter the manual range mode. The current displayed value will be taken as the reference value and then the difference between the measured value and reference value will be displayed, after another press, you'll exit the relative measurement mode. (Only applicable for $V\approx$, Ω , $I\approx$, $^{\circ}\text{C}/^{\circ}\text{F}$ and ---)

The backlight will be illuminated when the time of pressing button is $\geq 2\text{s}$, after about 15s, the backlight will be automatically turned off; the backlight will be turned off if pressing the key $\geq 2\text{s}$ when the backlight is illuminated.

Hz/% button

It can be used to select the mode Hz/%, only applicable for the selection of frequency, AC voltage/ current measurement modes.

SELECT button:

it can be used to select range (only applicable for multi-range). Under AC mode, press the button $\geq 2\text{s}$, display "UFC", enter V.F.C measurement mode and measure the variable frequency voltage. After another $\geq 2\text{s}$ pressing on the button, display "End" and exit the V.F.C measurement mode.

HOLD button: (Applicable for full range)

It can be used to lock and hold the displayed value, in such case, LCD displays the prompt " H ", after another press, it is unlocked and enter the normal measurement mode.

The backlight will be illuminated when the time of pressing button is $\geq 2\text{s}$, after about 15s, the backlight will be automatically turned off; and the backlight will be turned off if pressing the key $\geq 2\text{s}$ when the backlight is illuminated.

IX. Measurement Instruction

Check the built-in AA 1.5Vx2 battery, display will show the symbol "🔋" when lack of power, and then replace battery in time. It is required to pay attention to the symbol "⚠️" beside the test pen socket, which reminds one of the fact that in case of measurement safety, testing voltage or current shall not exceed the specified value

1. AC and DC Voltage Measurement (See Figure 3)

- 1) Connect the instrument with the load in parallel for measurement.
- 2) When the input impedance of the instrument is about $10M\Omega$, the load may cause measurement error in the circuit with high impedance. In most cases, the error can be neglected (0.1% or lower) if the circuit impedance is under $10k$

⚠️ Notes:

- It is forbidden to input voltage higher than $600V_{rms}$, despite of the possibility of measuring higher voltage, as it may damage the instrument.
- It is required to avoid the electric shock in measuring high voltage.

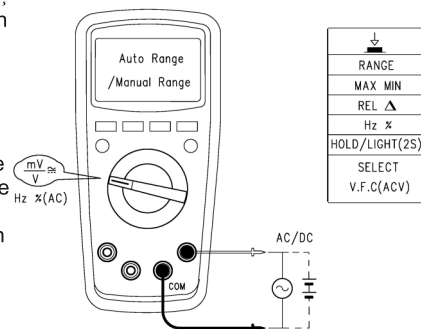


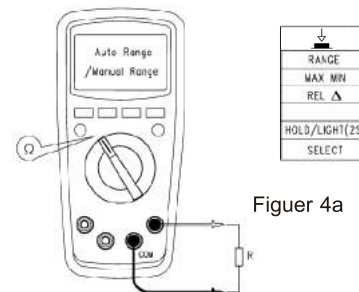
Figure 3

2. Resistance Measurement (See Figure 4a)

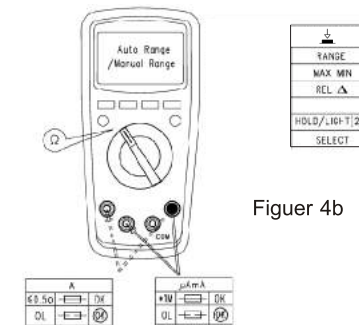
Connect the instrument with the load in parallel for measurement.

⚠️ Notes:

- *. The display will show "OL" when the measured resistance open-circuit or resistance value exceeds the maximum range of the instrument.
- *. Prior to measuring online resistance, it is necessary to switch off all powers in the circuits to be measured, and release all residual charges to ensure the measurement accuracy.
- *. In measuring low resistance, a measurement error in resistance of about $0.1\Omega \sim 0.2\Omega$ will be resulted by the test pen. In order to acquire accurate reading, it is required to short circuit the test pen, take REL relative measurement mode to ensure the measurement accuracy.
- *. Check the test pen for any loosening or other reasons in case there is a resistance value no less than 0.5Ω when test pen is short circuited.
- *. Several seconds may be required for the reading stability when measuring high resistance, which is normal for high resistance measurement.
- *. By using the resistance measurement function, it is allowed to make self-checking of the built-in fuse, see (Figuer 4b).
- *. No input higher than DC $60V$ or AC $30V$ is allowed.



Figuer 4a



Figuer 4b

3. Circuit on-off measurement (See Figure 5)

If the resistance of two terminals to be measured is bigger than $150\ \Omega$, there will be a circuit break and buzzer will make no sound; if the resistance is $\leq 10\ \Omega$, the circuit is deemed with good conductivity and buzzer will continuously sound.

⚠ Notes

- * Prior to measuring online circuit on-off, it is necessary to switch off all power supplies in the circuits to be measured and release all residual charges to ensure the measurement accuracy.
- * To prevent personal injury, it is not allowed to input the voltage higher than DC 60V or AC 30V.

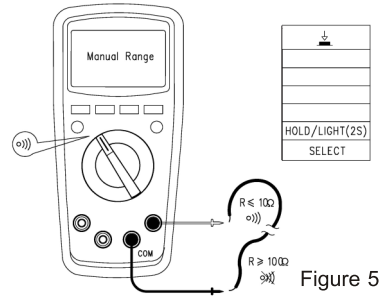


Figure 5

4. Diode measurement (Figure 6)

“OL” will be displayed when the diode to be measured is an open circuit or polarity is reversely connected. For Silicon PN junction, the normal value is normally 500~800mV.

⚠ Notes

- * Prior to measuring online diode, it is necessary to switch off all power supplies in the circuits to be measured and release all residual charges to ensure the measurement accuracy.
- * Test voltage for diode is about: 3.2V
- * To prevent personal injury, it is not allowed to input the voltage higher than DC 60V or AC 30V

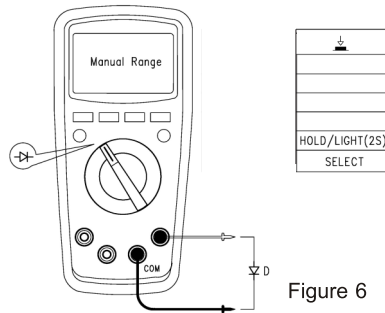


Figure 6

5. Capacitance measurement

(See Figure 7) The instrument, when without any input, will display a fixed reading which is the internal fixed capacitance value. When measuring small range gear capacitance, the above value shall be subtracted from the value to be measured to ensure the accuracy. The relative measurement REL function can be used to automatically subtract the value to facilitate the measurement.

⚠ Notes

- * The display will show “OL” when the capacitor to be measured becomes short-circuited or the capacitance value exceeds the maximum range of the instrument.
- * Generally, several seconds will be taken to measure high-capacity capacitor.
- * To prevent damage to the instrument and personal injury, it is required before testing to release all residual charges, which is particularly important for capacitor with high voltage.

6. Frequency/Duty Ratio Measurement

(See Figure 8) At the frequency measurement gear, press the button Hz/% to select frequency/duty ratio measurement mode.

⚠ Notes

- * To prevent personal injury, it is not allowed to input the voltage higher than DC 60V or AC 30V

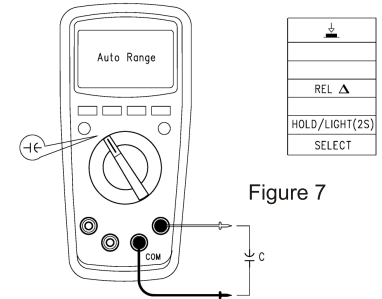


Figure 7

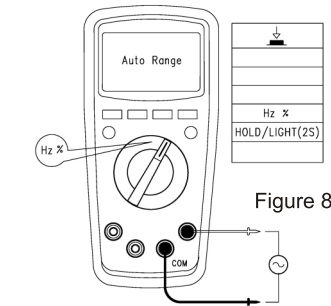


Figure 8

7. Temperature measurement

(See Figure 9) Temperature sensor: It is only applicable for K (Ni-Cr and Ni- Si) thermocouple. After startup, "OL" is displayed, complete Celsius or Fahrenheit temperature measurement by connecting the product with K-type temperature sensor.

$^{\circ}\text{F}=1.8^{\circ}\text{C}+32$

⚠ Notes

The point type K (Ni-Cr and Ni- Si) thermocouple is only applicable for the measurement of temperature under $230^{\circ}\text{C}/446^{\circ}\text{F}$.

8. AC and DC current measurement (See Figure 10)

Connect the instrument with the load in serial for measurement. AC measurement value will be true RMS.

⚠ Notes

- *. Before connecting instrument in serial with the loop to be measured, switch off the power supply.
- *. In measurement, it is required to use proper input terminal and function gear; if unable to estimate the current, the measurement should start with the high gear range.
- *. Fuses are provided inside the 10A, mA/ μ input jacks. It is forbidden to connect the table pen test pin in parallel with any circuit, especially the power supply terminal, which may cause damage to the instrument and personal injury. For security purposes, when measuring current higher than 5A, the time of each measurement should be controlled less than 10s and an interval of at least 15min should be maintained.
- *. When measuring AC current online, it is allowed to press the button Hz/% to display online AC frequency/ duty ratio.
- *. 60A AC and DC current clamp measurement (See Figure 11). Connect as shown in the figure with the attached current clamp.

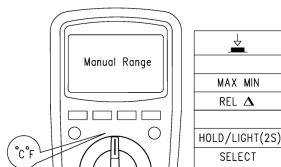


Figure 9

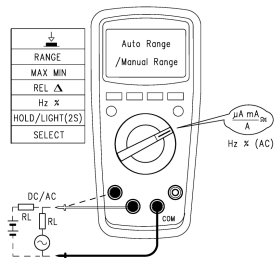


Figure 10

9. NCV Non-contact AC voltage sensing (See Figure 12)

If need to detect whether there is a AC voltage or electromagnetic field, allow the front end of the instrument be close to the object to be sensed. The analog quantity of sensed AC voltage is about: "EF" is displayed when \leq critical voltage.

"—" is displayed when $UT139C >$ critical voltage, "—" is designed according to the size of voltage V_d and accompanied by different buzzing sounds to mark the difference of sensed voltage.

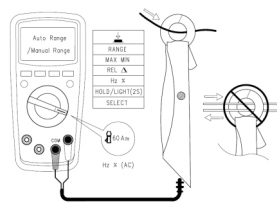


Figure 11

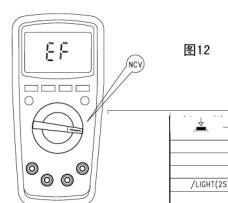


Figure 12

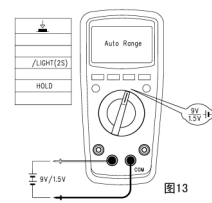


Figure 13

10. Other functions:

- *. After 2s of full display following startup, enter the normal measurement mode. "ErrE" will be displayed in case of any fault to the internal EEPROM.
- *. Auto power-off: the instrument will be "automatically powered off" to save energy in case of no operation to the knob switch within 15min. Under auto power-off status, any press on the SELECT of UT139A or any button of UT139C will "automatically arouse" the instrument, or restart the instrument by turning the knob switch to OFF. Under power-off status, press on SELECT and power on, the buzzer will make five sounds to remind that the auto power-off function has been cancelled. Restarting the instrument after power-off will recover the auto power-off function.
- *. Buzzer: A "Beep" sound (about 0.25s) from buzzer means the function button is valid when pressing any button or turning the function button. When measuring voltage or current: 590mA When A gear AC/DC current is $>10A$, buzzer will make continuous sounds to remain the over-range. In addition, the buzzer make make 5 continuous sounds about 1min prior to auto power-off and then make one long sound prior to power-off. When the auto power-off function is cancelled, 5 sounds will be made by the buzzer every 15min.
- *. Low-voltage detection: it is used to detect the internal VDD. When the voltage is lower than 2.4V, the battery under-voltage symbol "" will be displayed, and the normal operation is available; while when lower than 2.2V, no operation is allowed and only the symbol is displayed after startup.
- *. When the battery supply voltage is reduced to 2.6V, the LCD backlight is weak or can not start; measurement functions can still be used normally.

X. Technical Index

Accuracy: \pm (a% reading + b word number).

Ambient temperature: $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ ($73.4^{\circ}\text{F} \pm 9^{\circ}\text{F}$) Relative humidity: $<75\%$.

1. DC voltage measurement

Range	Resolution	Accuracy
60.00mV*	10 μ V	\pm (0.7%+3)
600.0mV**	0.1mV	
6.000V	1mV	\pm (0.7%+3)
60.00V	10mV	
600.0V	0.1V	
600V	1V	

10M Ω . (There will be unstable digital display in case of */** range open-circuit; after connecting with the load, it can be controlled $\leq \pm 1$)

* Range: 60mV range

* Range: 600mV range

Maximum input voltage: $\pm 600V$

2. AC voltage measurement

Range	Accuracy	Resolution
60.00mV	± (1.0%+3)	10μV
600.0mV		0.1mV
6.000V	± (0.8%+3)	1mV
60.00V		10mV
600.0V		0.1V
600V	+ (1.0%+3)	1V
V.F.C 600V	± (4.0%+3)	1V

⚠ Input impedance: about 10MΩ.

Display the true RMS. Frequency response: 45~1kHz (VFC: 45~400Hz)

Assurance of accuracy: 5~100% range, an allowance of <10 words of residual reading for short-circuit. It will be up to 3.0 when AC crest factor reaches full value (with except for 600V range, which is up to 1.5 when the range reaches the full value). Maximum input voltage: 600Vrms

3. Resistance measurement



Range	Accuracy	Resolution
600.0Ω*	+ (1.0%+2)	0.1Ω
6.000kΩ	± (0.8%+2)	1Ω
60.00kΩ		10Ω
600.0kΩ		100Ω
6.000MΩ	± (1.2%+3)	1kΩ
60.00MΩ	± (1.5%+5)	10kΩ

⚠ Range: measured value = displayed value – short-circuit value of test pen.

*. Open-circuit: about *1V

*. Overload protection: 600V-PTC

4. Circuit on-off, diode measurement

Range	Resolution	Remark
	0.1Ω	Circuit breakage resistance value is set as: > 150Ω, buzzer is soundless. Good conductivity is set as: ≤10Ω buzzer sounds.
	1mV	Open circuit voltage is about 3.2V Normal voltage value of silicon PN junction is about 0.5~0.8V.

⚠ Overload protection: 600V-PTC

5. Capacitance Measurement

Range	Resolution	Accuracy
9.999nF	1pF	Under REL status: ±(4%+10)
99.99nF~999.9μF	10pF~0.1μF	±(4%+5)
9.999mF~99.99mF	1μF~10μF	±10%(≤2mF)

⚠ Overload protection: 600V-PTC

For capacitor ≤1μF, it is recommended to adopt REL measurement mode to ensure measurement accuracy.

6. Frequency/duty ratio measurement

Range	Resolution	Accuracy
9.999Hz~9.999MHz	0.001Hz~0.001MHz	±(0.1%+4)
1%~99.9%	0.1%	Not defined

⚠ Over-load protection: 600V-PTC

Input range a: (DC level is zero)

≤100kHz:100mVrms≤a≤20Vrms

>100kHz~1MHz : 200mVrms≤a≤20Vrms

>1MHz : 500mVrms≤a≤20Vrms

5MHz~10MHz : 900mVrms≤a≤20Vrms

Duty ratio %: only applicable for measurement ≤100kHz

Remark:

*. During measurement of AC voltage or AC current, if need to read online frequency value or duty ratio, following input should be met: frequency response: ≤1kHz;

*. AC voltage: mV range input ≥100mV; V range input ≥ range ×6%

*. AC current: input range a

4000/6000μA, 400/600mA, 10A range: a≥ range ×6%

400/600μA, 40/60mA, 4/6A range: a≥ range ×60%

7. Temperature measurement

Range		Resolution	Accuracy
°C	-40~1000°C	-40~0°C	±3
		>0~100°C	±(1.0%+3)
		>100~1000°C	±(2.0%+3)
°F	-40~1832°F	-40~32°F	±5
		>32~212°F	± (1.5%+5)
		>212~1832°F	± (2.5%+5)

⚠ Over-load protection: 600V-PTC

Remark: The point type K (Ni-Cr and Ni- Si) thermocouple is only applicable for the measurement of temperature under 230°C/446°F

8. DC current measurement

Range	Accuracy	Resolution
600.0μA	± (0.7%+2)	0.1μA
6000μA		1μA
60.00mA		10μA
600.0mA	± (1.0%+3)	0.1mA
6.000A		1mA
10.00A		10mA

⚠ Over-load protection:

μ A mA range:

F1 fuse: (φ6×32)mm

10 A range: F2 fuse: (φ6×25)mm F 10A H 600V (CE)

9. AC current measurement

Range	Resolution	Accuracy
600.0μA	0.1μA	±(1.0+3)
6000μA	1μA	
60.00mA	10μA	
600.0mA	0.1mA	±(1.2%+3)
6.000A	1mA	
10.00A	10mA	

Frequency response: 45~1kHz

Display: true RMS.

Assurance of accuracy: 5~100% range, an allowance of <2 words of residual reading for short-circuit. It will be up to 3.0 when AC crest factor reaches full value.

⚠ Over-load protection: (the same as the DC current over-load protection)

10. (60A) current clamp measurement

Range	Resolution	Accuracy
60A dc	0.01A	$\pm(1.0+3)$
60A ac		$\pm(1.2+3)$

⚠ Over-load protection: 600V-PTC


XI. Upkeep and Maintenance

⚠ Warning: Power shall be switched off before opening the rear cover of the instrument; and the test pen shall be away from the input terminal and circuit to be measured.

1. Conventional upkeep and maintenance

- * For upkeep and maintenance, wet cloth and mild cleanser rather than abrasive or solution shall be used to clean the meter housing.
- * Please stop using and send for maintenance in case of any abnormal condition about the instrument.
- * The inspection or maintenance for instrument, if necessary, shall be performed by the qualified professional maintenance personnel or designated maintenance department.

2. Battery or fuse tube replacement (See Figure 14)

Built-in battery shall be replaced in time when LCD displays the under-voltage prompt "  ", otherwise measurement accuracy may be affected.

Battery specification: AA 1.5Vx2

Operating steps:

1. Set the power switch at "Off", take the test pen away from the input jack and remove the protective sleeve.
2. Screw off one screw securing batter rear cover with screw driver, remove the cover and replace:
The under-voltage used battery and burnout fuse:
F1 fuse: ($\phi 6 \times 32$) mm
FF0.6A H 600V (CE)
3. Screw off the second screw securing the rear cover with screw driver and remove the cover to replace the burnout F2 fuse ($\phi 6 \times 25$) mm F 10A H 600V (CE).

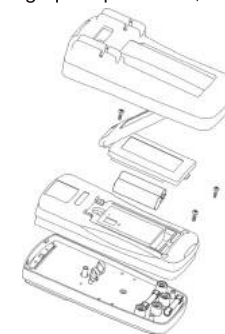


Figure 14

WARRANTY

This product is guaranteed against defects for a period of 12 months from date of purchase. This warranty is provided by Super Cheap Auto Pty Ltd ACN 085 395 124 (Supercheap Auto) of 751 Gympie Rd Lawnton QLD 4501 Ph (07) 3482 7500. Supercheap Auto will offer a repair, replacement product or store credit if the product is assessed as being defective during the warranty period.

To claim under this warranty, take this product to the Front Service Desk of your nearest Supercheap Auto store. For store locations, visit www.supercheapauto.com.au (AUS) or www.supercheapauto.co.nz (NZ). You will need your receipt or proof of purchase. Additional information may be requested of you to process your claim. Should you not be able to provide proof of purchase with a receipt or a bank statement, identification showing your name, address and signature may be required to process your claim.

This product may need to be sent to the manufacturer to assess the defect before determining any claim. Faults or defects caused by product modification, misuse and abuse, normal wear and tear or failure to follow user instructions are not covered under this warranty. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Any expenses incurred relating to the return of this product to store will normally have to be paid by you. For more information contact your nearest Supercheap Auto store.

The benefits to the consumer given by this warranty are in addition to other rights and remedies of the Australian Consumer Law in relation to the goods and services to which this warranty relates.

说明书菲林做货要求:

序号	项目	内容	
1	尺寸	外形尺寸: (150×118) ±1mm	
2	材质	封面、封底用128g铜版纸、内页用60g书纸做货	
3	颜色	黑色	
4	外观要求	印刷完整清晰、版面整洁, 无斑墨、残损、毛边、刀线错位等缺陷。	
5	装订方式	钉装 (大号书钉2枚)	
6	表面处理	无	
7	修改	版本.1 韦英锁2015/11/11 1. 修改前物料: 110401105492X 2. 修改第3页的重量和产品尺寸	
DWH 设计	赵有平2015/9/22	MODEL UT139C	Part NO.
CHK 审核		机型: (AT-019客户)	物料编号:110401105553X
APPRO. 批准		 优利德科技(中国)有限公司 UNI-TREND TECHNOLOGY (CHINA) LIMITED	