UT58E Operating Manual



Modern Digital Multimeter

Overview

MWarning

To avoid electric shock or personal injury, read the "Safety Information carefully before using the Meter.

Digital Multimeter Model UT58E is a 20000-count hand -held instrument with remarkable features: ex-large LCD, steady operations, overload protection for all ranges and unique structure. It is designed with large -scale integrated circuits and dual integral A/D converter as the core, which offers 28 measuring ranges and can measure AC/DC voltage, AC/DC current, resistance, capacitance, transistor, diode and continuity. It is also equipped with data hold, full icon display and sleep mode functions, etc;

Unpacking Inspection

Open the package case and take out the Meter. Check the following items carefully for any missing or damaged part:

Item	Description	Qty
1	English Operating Manual	1 pc
2	Test Lead	1 pair
3	Multi-Purpose Socket	1 pc
4	Test Clip	1 pair
5	Point Contact Temperature Probe	1 pc
6	Holster	1 pc
7	9\/ Battery (NEDA 1604_6E22 or 009P)	1 pc

7 9V Battery (NEDA 1604, 6F22 or 009P) 1 pr In the event you find any missing or damaged part, please contact your dealer immediately.

Safety Information

This Meter complies with the standard IEC61010: Pollution Degree 2; Overvoltage Category (CAT. II 1000V, CAT. III 600V) and Double Insulation.

CAT. II: Local level, appliance, PORTABLE EQUIPMENT etc., with smaller transient voltage overvoltages than

CAT. III CAT. III: Distribution level, fixed installation, with smaller

transient overvoltages than CAT. IV Use the Meter only as specified in this operating manual, otherwise the protection provided by the Meter may be impaired.

In this manual, a Warning identifies conditions and actions that pose hazards to the user, or may damage the Meter or the equipment under test.

A Note identifies the information that user should pay attention to.

Warning

To avoid possible electric shock or personal injury, and to avoid possible damage to the Meter or to the equipment under test, adhere to the following rules:

- Before using the Meter inspect the case. Do not use the Meter if it is damaged or the case (or part of the case) is removed. Look for cracks or missing plastic. Pay attention to the insulation around the connectors.
- Inspect the test leads for damaged insulation or exposed metal. Check the test leads for continuity. Replace damaged test leads with identical model number or electrical specifications before using the Meter.
- Do not apply more than the rated voltage, as marked on the Meter, between the terminals or between any terminal and grounding.
- The rotary switch should be placed in the right position and no any changeover of range shall be made during measurement to prevent damage of the Meter.
- When the Meter works at an effective voltage over 60V in DC or 30V rms in AC, special care should be taken for there is danger of electric shock.
- Use the proper terminals, function, and range for your measurements.
- If the value to be measured is unknown, use the maximum measurement position and reduce the range stop by step until a satisfactory reading is obtained.
- Do not use or store the Meter in an environment of high temperature, humidity, explosive, inflammable and strong magnetic field. The performance of

the Meter may deteriorate after dampened.
When using the test leads, keep your fingers behind the finger guards.

- Disconnect circuit power and discharge all high -voltage capacitors before testing resistance, continuity, diodes, capacitance or current.
- Before measuring current, check the Meter's fuses and turn off power to the circuit before connecting the Meter to the circuit.
- Replace the battery as soon as the battery indicator appears. With a low battery, the Meter might produce false readings that can lead to electric shock and personal injury.
- Remove test leads and multi-purpose socket from the Meter and turn the Meter power off before opening the Meter case.
- When servicing the Meter, : use the replacement parts with the same model or identical electrical specifications.
- To avoid any damage to the meter or any accident, do not alter the internal circuit of the Meter randomly.
 Soft cloth and mild detergent should be used to clean the surface of the Meter when servicing.
- No abrasive and solvent should be used to prevent the surface of the Meter from corrosion, damage and accident.
- The Meter is suitable for indoor use.
 Turn the Meter power off when it is not in use

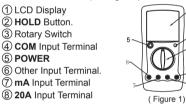
and take out the battery when not using for a long time.

 Constantly check the battery as it may leak when it has been using for some time, replace the battery as soon as leaking appears. A leaking battery will damage the Meter.

International Electrical Symbols

2	AC (Alternating Current).	
::	DC (Direct Current).	
÷	Grounding.	
	Double Insulated.	
Ē	Low Battery Indication.	
\land	Warning. Refer to the Operating Manual.	
-₩-	Diode.	
ф	Fuse.	
A	Continuity Test.	
CE	Conforms to Standards of European Union.	

The Meter Structure (See Figure 1)



Rotary Switch

Below table indicated for information about the rotary switch positions.

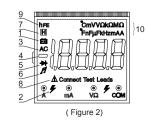
Rotary Switch Position	Function	
v 	DC voltage measurement.	
v~	AC voltage measurement.	
hFE	Transistor Test	
A~	AC Current Measurement	
Α	DC Current Measurement	
Fcx	Capacitance Test	
°C	Temperature Measurement	
Hz	Frequency Measurement	
→-	Diode test	
A	Continuity test	
0	Resistance measurement.	

Functional Buttons

Below table indicated for information about the functional button operations

Button	Description			
POWER (Yellow Button)	 Turn the Meter on and off. Press down the POWER to turn on the Meter. Press up the POWER to turn off the Meter . 			
HOLD (Blue Button)	 Press HOLD once to enter hold mode. Press HOLD again to exit hold mode. In Hold mode, II is displayed and the present value is shown 			

Display Symbols (See Figure 2)



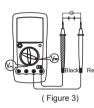
No.	Symbol	Description		
1	Ē	The battery is low. A Warning: To avoid false readings, replace the battery as soon as the battery indicator appears.		
2	¥	Warning Symbol.		
3	AC	Indicator for AC voltage or current. The displayed value is the mean value.		
4	_	Indicates negative reading.		
5	→+-	Test of diode.		
6	A	The continuity buzzer is on.		
7	H	Date hold is active.		
8	Connect Terminal	Indicator of connecting test leads into different input terminals.		
9	hFE	The Unit of Transistor Test		
	mV, V	V: Volts. The unit of voltage. mV: Millivolt. 1 x 10 ⁻³ or 0.001 volts.		
	Ω, k Ω, M Ω	 Ω: Ohm. The unit of resistance. kΩ: kilohm.1 x 10³ or 1000 ohms. MΩ: Megaohm. 1 x 10⁶ or 1,000,000 ohms. 		
10	μ Α,mΑ, Α	 A: Amperes (amps). The unit of current. mA: Milliamp. 1 x 10⁻³ or 0.001 amperes. μA: Microamp. 1x 10⁻⁶ or 0.000001 amperes. 		
	°C,°F	°C: Centigrade temperature °F: Fahrenheit temperature		
	kHz	Hertz. The unit of frequency in cycles/second. Kilohertz. 1 x 10 ³ or 1,000 hertz.		
	nF, μF	F: Farad. The unit of capacitance. μ F: Microfarad. 1 x 10 ⁻⁶ or 0.000001 farads. nF: Nanofarad. 1 x 10 ⁻⁹ or 0.000000001 farads.		

Measurement Operation

A. Measuring DC and AC Voltage (See Figure 3)

AWarning

To avoid harms to you or damages to the Meter from electric shock, never attempt to measure voltages higher than 1000 or 1000V rms although readings may be obtained.



The DC Voltage ranges are: 200mV 2V,20V,20V and 1000V The AC Voltage ranges are: 2V, 20V, 200V and 1000V To measure DC&AC Voltage, connect the Meter as follows:

- Insert the red test lead into the VΩ input terminal and the black test lead into the COM input terminal.
 Set the rotary switch to an appropriate measurement
- position in $\forall \overline{\cdots}$ or $\forall \sim$ range. 3.Connect the test leads ss with the object to be
- measured in parallel. The measured value shows on the display.
- NoteIf the value of voltage to be measured is unknown,
- use the maximum measurement position (1000V) and reduce the range step by step until a satisfactor reading is obtained. • The LCD displays "1" indicating the existing selecte
- The LCD displays of indicating the existing selected range is overloaded, it is required to select a higher range in order to obtain a correct reading.
 In each range, the Meter has an input impedance of y
- approx. 10M Ω This loading effect can cause measurement errors in high impedance circuits. If th^d circuit impedance is less than or equal to 10k Ω , the error is negligible (0.1% or less).
- When voltage measurement has been completed disconnect the connection between the testing leads and the circuit under test, and remove the testing leads away from the input terminal of the Meter.
- B. Measuring DC and AC Current (See Figure 4)

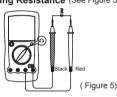


Warning

Never attempt an in-circuit current measurement where the open circuit voltage between terminals and ground is greater than 60V DC or 30V rms in AC. If the fuse burns out during measurement, the Meter may be damaged or the operator himself may be hurt. Use proper terminals, function, and range for the measurement. When the testing leads are connected to the current terminals, do not parallel them across any circuit.

The DC Current ranges : 2mA, 200mA and 20A The AC Current ranges : 20mA, 200mA and 20A

- To measure current, do the following:
- Turn off power to the circuit. Discharge all highvoltage capacitors.
- Insert the red test lead into the 20A or mA input terminal and the black test lead into the COM terminal. When you measure current below 200mA, please insert the red test lead into the mA input terminal. When you measure 200mA or above, insert the red
- test lead into the 20A input terminal.
 3. Set the rotary switch to an appropriate measurement position in A... or A~range.
- 4. Break the current path to be tested. Connect the red test lead in serial to the more positive side of the break and the black test lead to the more negative side of the break.
- 5. Turn on power to the circuit. The measured value shows on the display Note
- If the value of current to be measured is unknown, use the maximum measurement position, and reduce the range step by step until a satisfactory reading is obtained.
- For safety sake, the measuring time for high current should be less than 10 seconds and the interval time between 2 measurements should be greater than 15 minutes
- When current measurement has been completed, disconnect the connection between the testing leads and the circuit under test, and remove the testing leads away from the input terminal of the Meter.
 C. Measuring Resistance (See Figure 5)

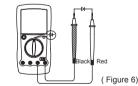


∠ Warning

To avoid damages to the Meter or to the devices under test, disconnect circuit power and discharge all the high-voltage capacitors before measuring resistance. The resistance ranges are: $200 \Omega_2 k\Omega_2 0 k\Omega_2 M\Omega_a$ and

The resistance ranges are: $200\Omega, 28\Omega, 200\Omega$

- To measure resistance, connect the Meter as follows: 1. Insert the red test lead into the $\mathbf{V}\Omega$ input terminal and the black test lead into the **COM** terminal.
- Set the rotary switch to an appropriate measurement position in Ω range.
 Connect the test lead with the object being measured
- in parallel.
- The measured value shows on the display
- Note
 The test leads can add 0.1 Ω to 0.3 of error to the slow-resistance(200Ω) measurement.
- \bullet For high resistance(>1M $\Omega)$,it is normal taking several seconds to obtain a stable reading .
- When there is no input, for example in open circuit condition, the Meter displays"1"
- When resistance measurement has been completed, disconnect the connection between the testing leads and the circuit under test, and remove the testing leads away from the input terminal of the Meter.
- D. Testing Diodes and Continuity (See Figure 6)



Warning To avoid damage to the Meter or to the equipment under test, disconnect circuit power and discharge all high-voltage capacitors before measuring diodes. To avoid harms to you, never attempt to input voltages higher than 60V DC or 30V rms in AC

Measuring Diodes

cathode.

Note

Use the diode test to check diodes, transistors, and other semiconductor devices. The diode test sends a current through the semiconductor junction, and then measures the voltage drop across the junction. A good silicon junction drops between 0.5V and 0.8V To test out a diode out of a circuit connect the Meter as

To test out a globe out of a circuit, connect the Meter as follows: 1. Insert the red test lead into the $v\Omega$ input terminal and

3. For forward voltage drop readings on any semiconductor

anode and the black test lead on the component's

• In a circuit, a good diode should still produce a forward

component, place the red test lead on the components

the black test lead into the COM terminal

The measured value shows on the display

2. Set the rotary switch to +- 17.

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voltage drop reading of 0.5V to 0.8V; however; the reverse voltage drop reading can vary depending on the resistance of other pathways between the probe tips.

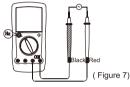
- Connect the test leads to the proper terminals as said above to avoid error display. The LCD will display"1' indicating open-circuit or wrong connection. The unit of diode is Volt (V), displaying the positive-connection voltage-drop value.
- The open-circuit voltage is around 2.8V.
- When diode testing has been completed, disconnect the connection between the testing leads and the circuit under test, and remove the testing leads away from the input terminal of the Meter.

Testing for Continuity

- To test for continuity, connect the Meter as below: 1. Insert the red test lead into $\mathbf{V}\Omega$ terminal and the black test lead into the COM terminal
- Set the rotary switch to → 月
- 3. Connect the test leads across with the object being measured.
- 4. The buzzer sounds if the resistance of a circuit under test is ≤ 70Ω The tested circuit resistance value shows on the display and the unit is Ω .

Note

- When continuity testing has been completed, disconnect the connection between the testing leads and the circuit under test, and remove the testing leads away from the input terminal of the Meter
- E. Measuring Frequency (See Figure 7)



/ Warning

To avoid harms to you, never attempt to input voltages higher than 60V DC or 30V rms in AC. When the voltage of tested frequency signal is higher than 30V rms, the measuring accuracy may not be guaranteed. The frequency measurement range is 20kHz. To measure frequency, connect the Meter as follows:

1. Insert the red test lead into the ${\bm V}\Omega$ terminal and the black test lead into the COM terminal

2. Set the rotary switch to 20kHz range 3. Connect the test leads with the object being measured in parallel.

The measured value shows on the display. Note

When Hz measurement has been completed, disconnect the connection between the testing leads and the circuit under test, and remove the testing leads away from the input terminals of the Meter

F. Measuring Temperature (See Figure 8)



To avoid harm to you or damages to the Meter, never attempt to measure voltages higher than 60V in DC or 30V rms in AC although readings may be obtained. During testing, the operating temperature must be within 18-23°C, otherwise the obtained reading may not be correct especially measuring low temperature. The temperature measurement range is from -40 °C~1000°C To measure temperature, connect the Meter as follows:

Figure 8)

1. Insert the "+" and "-" temperature probe into corresponding $\boldsymbol{V}\boldsymbol{\Omega}$ and \boldsymbol{COM} terminal

2. Set the rotary switch to °C

3. Place the temperature probe's tip to the object being measured

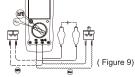
The measured value shows on the display.

Note

• When the temperature probe doesn't insert into the Meter, LCD displays internal temperature of the Meter.

- The supplied temperature probe can measure only up to 250 C. If high temperature measurement is required,
- please purchase the temperature probe of other models from our company. When temperature measeuremnet has been completed.
- remove the temperature probe away from the input terminal of the Meter

G. Measuring Capacitance (See Figure 9)



Warning

To avoid damage to the Meter or to the equipment under test, disconnect circuit power and discharge all high-voltage capacitors before measuring capacitance.Use the DC voltage function to confirm that the capacitor is discharged.

To avoid harms to you, never attempt to input voltages

The capacitance ranges: 2nF, 20nF, 2µF and 20 μ F. To measure capacitance, connect the Meter as follows 1.According to the size of the tested object's leads, select multi-purpose socket or test clip to insert into

- the **mA** and $\mathbf{V}\Omega$ terminal. 2. Set the rotary switch to an appropriate measurement position in Fcx range.
- 3. Insert the tested object into the corresponding jack of the multi-purpose socket or connect the test clip to the
- object being measured. The measured value shows on the display.

Note

- If the value of capacitance to be measured is unknown, use the maximum measurement position, and reduce the range step by step until a satisfactory reading is obtained.
- When the tested capacitor is shorted or the capacitor value is overloaded, the LCD display "1"
- To minimize the measurement error caused by the distributed capacitance, the testing lead should be as short as possible.
- To increase the accuracy especially when measuring small capacitance range, subtract the test leads' open-circuit value from the display reading.
- It is normal to take a longer time when testing a high capacitor value.
- For testing the capacitor with polarity, connect the red clip or red test lead to anode and black clip or black test lead to cathode.
- \bullet It takes some time for zeroing when you switching over the rotary switch, the floating readings showing on the display during this process do not affect the final testing accuracy.
- When capacitance testing has been completed, disconnect tested objects from multi-purpose socket or test clip, and remove multi-purpose socket or test clip away from the input terminal of the Meter

H. Measuring Transistor (See Figure 9)

Warning

To avoid harms to you, please do not attempt to input voltages higher than 60V DC or 30V rms AC. To measure transistor, connect the Meter as follows

- 1. Insert the multi-purpose socket into the $\mathbf{V}\Omega$ and $\mathbf{m}\mathbf{A}$ terminal.
- 2. Set the rotary switch to hFE range.
- 3. Insert the NPN or PNP type transistor to be tested into the corresponding jack of the multi-purpose socket The measured nearest transistor value shows on the display.

Note

• When transistor measeurement has been completed, remove the transistor to be tested away from the multipurpose socket, and remove multi-purpose socket away from the input terminal of the Meter.

Sleep Mode

To preserve battery life, the Meter automatically turns off if you do not turn the rotary switch or press any button for around 15 minutes. When the Meter is under sleep

mode, it consumes $10 \mu A$ current. To activate the Meter, press POWER for two times **Operation of Hold Mode**

To avoid possibility of electric shock, do not use Hold mode to determine if circuits are without power. The Hold mode will not capture unstable or noisy readings. To use the Hold mode as follows:

- Press HOLD to enter Hold mode Press HOLD again to exit Hold mode.
- In Hold mode, 🖪 is displayed.

General Specifications

 Maximum Voltage between any Terminals and grounding: Refer to different range input protection

- voltage. Fused Protection for
- mA Input Terminal

: CE Version: 0.5A, 250V V Ω°C input jack's fuse:0.63A,250V fast type, 5\$20mm, to be used on capacitance, temperature and transistor testing input protection.

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\wedge	
• 🖄 20A Input Terminal	: Unfused.
Maximum Display	: 19999,updates 2
	times/second.
Range	: Manual ranging.
Polarity display	: Automatically
Overloading	: Display " 1 ".
Low Battery Indication	: Display " 🛱 ".
Data Hold	: Display" 📕

- Operating: 0°C~40°C(32°F~104°F): Temperature: Storage: -10°C~50°C(14°F~122°F). Relative Humidity :≤ 75% @ 0°C~ below 30°C;
- \$50% @ 30 € 30 € : 2000m; Storage: 10000m. • Altitude: Operating • Electromagnetic Compatibility: In a radio field of 1 V/m, Overall Accuracy = Specified Accuracy + 5% of Range; in a radio field of more than 1 V/m, no assigned

	andari i trini, ne accignica
accuracy is specified.	
Battery Type	: One piece of 9V (NEDA1604
Dimensions	or 6F22 or 006P). : 179x88x39mm.
Veight	: Approx.380g (including
	holator and hotton()

holster and battery) • Safety/Compliances : IEC61010 CAT II 1000V, CATIII 600V Overvoltage,

	standards
cate:	CE

Double Insulation

LINI-T_o

Overload

Protection

250V rms

Overload

Protection

250V rms

Testing Conditions

lbo≈10μA

Vce ≈ 2.8V

Accuracy

 $\pm(3\%+40)$

±(4%+10)

• Testing signal is approx.: 400Hz 40mVrms.

Remarks

The

display

value is the tested

transisto

(NPN, PNP

of hFE (0 1000β)

This section provides basic maintenance information

including battery and fuse replacement instruction.

you are qualified to do so and have the relevant

detergent. Do not use chemical solvent

the battery when not using for a long time. Do not store the Meter in place of humidity, high

B. Replacing the Fuses (See Figure 10)

Do not attempt to repair or service your Meter unless

calibration, performance test, and service information.

Periodically wipe the case with damp cloth and mild

To clean the terminals with cotton bar with detergent,

Turn the Meter off when it is not in use and take out

temperature, explosive, inflammable and strong

as dirt or moisture in the terminals can affect readings.

Holste

(Figure 10)

Screw

To avoid electrical shock or arc blast, or personal

injury or damage to the Meter, use specified fuses

ONLY in accordance with the following procedure.

To replace the Meter's fuse: 1. Turn the Meter off and remove all connections from

3. Remove the 3 screws from the case bottom, and

4. Remove the fuse by gently prying one end loose, then take out the fuse from its bracket.

5. Install ONLY replacement fuses with the identical type

6. Rejoin the case bottom and case top, and reinstall the

Replacement of the fuses is seldom required. Burning

To avoid false readings, which could lead to possible

electric shock or personal injury, replace the battery as soon as the battery indicator "酉" appears.

1. Turn the Meter power off and remove all connections

Remove the 3 screws from the case bottom, and

Remove the battery from the battery connector. Replace with a new 9V battery (NEDA1604, 6F22 or

Rejoin the case bottom and case top, and reinstall

** END **

This operating manual is subject to change without notice.

UNI-TREND TECHNOLOGY (CHINA) CO., LTD

No6, Gong Ye Bei 1st Road, Songshan Lake National High-Tech Industrial Development Zone, Dongguan City, Guangdong Province, China

separate the case top from the case bottom.

and specification and make sure the fuse is fixed firmly

separate the case top from the case bottom.

Fuse 1: 0.5A, 250V, fast type, \$ 5x20mm

Fuse 2: 0.63A, 250V, fast type, \$ 5x20mm

of a fuse always results from improper operation.

C. Replacing the Battery (See Figure 10)

Remove the holster from the Meter.

the 3 screws and the holster

2. Remove the holster from the Meter.

To avoid electrical shock or damage to the Meter, do

I. Capacitance

20nF

Remarks

hFE

J. Transistor

Range Resolution

2nF 0.0001nF

2µF 0.0001µF

20µF 0.001µF

Range Resolution

Maintenance

A Warning

not get water inside the case.

A. General Service

magnetic field

∠ Warning

the terminals.

in the bracket.

⚠Warning

5.

6.

Remarks

Open circuit

voltage approx.2.8 v

The buzzer sounds if the

resistance of a circuit under test is≤70Ω

≤200mV

Overload

Protection

250V rms

Overload Sensitivity

Protectior

250V rms

Accuracy

±(3%+70)

±(1%+30)

±(2%+50)

006P)

UNI-T

Guangdong Province, Ch Tel: (86-769) 8572 3888

3 screws and holster.

To replace the Meter's battery:

from the terminals.

1β

0.001nF

Accuracy Specifications

Accuracya:±(% reading + b digits),guarantee for 1 year. Operating temperature:18°C~28°C. Relative humidity: ≤ 75%RH

A. DC Voltage

Certifi

Range	Resolution	Accuracy	Overload Protection	
200mV	0.01mV	±(0.05%+3)	250V DC / V AC	
2V	0.0001V			
20V	0.001V	±(0.1%+3)	1000V rms	
200V	0.01V	_(
1000V	0.1V	±(0.15%+5)		
Remarks: Input Impedance: approx.10MΩ				

B. AC Voltage

Range	Resolution	Accuracy	Overload Protection
2V	0.0001V		
20V	0.001V	±(0.5%+10)	1000V rms
200V	0.01V		
1000V	0.1V	±(1%+10)	

Remarks: Input Impedance: approx.2M Ω

Frequency response: 40Hz~400Hz Displays sinewave RMS value(AVG response)

Range	Resolution	Accuracy	Overload Protection
2mA	0.0001mA	±(0.5%+5)	CE Version:Fus
200mA	0.01mA	±(0.8%+5)	0.5A, 250V, fast type,¢5x20mm
20A	0.001A	±(2%+10)	Un-Fused

Remarks: At 20A Range:

Continuous measurement≼10 seconds and interval time between 2 measurement greater than 15 minutes.

Measuring Voltage Drop: 200mV for full ranges. D AC Current

D. AC Current					
Range	Resolution	Accuracy	Overload Protection		
20mA	0.001mA		CE Version:Fu		
200mA	0.01mA	$\pm (1.20(\pm 10))$	0.5A. 250V. fas		

20mA	0.001mA		CE Version:Fuse
200mA	0.01mA	±(1.2%+10)	0.5A, 250V, fast type,¢5x20mm
20A	0.001A	±(2.5%+10)	Un-Fused

Remarks: Frequency reaponse: 40Hz~400Hz

- At 20A Range:
- Continuous measurement ≤ 10 seconds and
- interval time between 2 measurement greater than
- 15 minutes Measuring Voltage Drop: 200mV for full ranges Displays sinewave RMS value(AVG response)

E. Resistance

Range	Resolution	Accuracy	Overload Protection
200 Ω	0.01Ω	±(0.5%+10) + Test Lead Short Circuit Resistance	
2kΩ	0.0001kΩ		250V rms
$20k\Omega$	0.001kΩ	<u>±(0.3%+1)</u>	250V ms
$2M \Omega$	$0.0001 M_{\Omega}$. ,	
200M Ω	0.01MΩ	±5%(reading- 1000)+10)	

displayed value is 1000 digits. To ensure the accuracy,

please subtract this value from the display reading

short-circuit the testing leads beforehand and record

• To obtain accurate readings when measuring 200Ω

the reading obtained (called this reading as X).

Then use the equation:

readings of resistance

F. Diodes and Continuity

+

А

Range Resolution Accuracy

1Hz

Function Range Resolution Protection

0.1mV

 0.1Ω

±(1.5%+5)

Resolution

1°C

250V rms

(X) is the additional resistance from the test lead.

measured resistance value (Y) - (X) = accurate

Remarks: • At 200M Ω range, the test leads are shorted and the

Diodes

Continuit

G.Frequency

H.Temperature

Range

-40°C~0°C

0°C~400°C

400°C~1000°C

Test

20kHz