

# **UNI-T Meters UT151 Series Modern Digital Multimeters User** Guide

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**UNI-T Meters UT151 Series Modern Digital Multimeters** 



#### **Product Information**

• Product Name: UT151 Series

• Model Numbers: UT151A, UT151C, UT151F

Measurement Functions: DC/AC Voltage, DC/AC Current,
Resistance, Capacitance, Diode, Temperature (UT151F), Battery (UT151A), Continuity

• Display Count: 2000

Maximum Voltage Range: Up to 600V (DC/AC)

• Maximum Current Range: Up to 10A (DC/AC)

 Features: Stable and reliable operations, Large-scale integrated circuits, Dual integral A/D converter, Overload protection for all ranges

• Manufacturer Website: www.uni-trend.com

# **Product Usage Instructions**

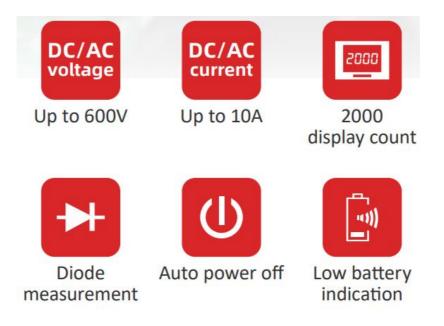
- 1. To measure DC voltage, select the appropriate range (200mV/2V/20V/200V/600V) and connect the multimeter's probes to the circuit.
- 2. To measure AC voltage, select the appropriate range (2V/20V/200V/600V) and connect the multimeter's probes to the circuit.
- 3. To measure DC current, select the appropriate range (200uA/2mA/20mA/200mA/10A) and connect the

- multimeter's probes in series with the circuit.
- 4. To measure AC current, select the appropriate range (2mA/20mA/200mA/10A) and connect the multimeter's probes in series with the circuit.
- 5. To measure resistance, select the appropriate range (200/2K/20K/200K/2M/20M/200M) and connect the multimeter's probes to the resistor.
- 6. To measure capacitance, select the appropriate range (2nF/20nF/200nF/2F/100F) and connect the multimeter's probes to the capacitor.
- 7. To measure diode, select the diode measurement function and connect the multimeter's probes to the diode.
- 8. To measure temperature (UT151F), select the temperature measurement function and connect the temperature sensor to the multimeter.
- 9. To measure battery voltage (UT151A), select the battery measurement function and connect the multimeter's probes to the battery terminals.
- 10. To check continuity, select the continuity measurement function and connect the multimeter's probes to the circuit.
- 11. Ensure that the multimeter's auto power off feature is enabled to conserve battery life.
- 12. Replace the battery when the low battery indicator is displayed.

UT151 Series are 2000-count handheld digital multimeters featuring remarkably stable and reliable operations. They are designed with large-scale integrated circuits and dual integral A/D converter and also offer overload protection for all ranges. The series can measure DC/AC voltage, DC/AC current, resistance, capacitance, diode, temperature, frequency (UT151F), battery (UT151A) and continuity, which make it a perfect solution for your work.

## **Specification**

| Specifications   | Range                                   | UT151A               | UT151C    | UT151F     |
|------------------|---|----------------------|-----------|------------|
| DC voltage (V)   | 200mV/2V/20V/200V/600V                  | ±(0.5%+1)            | ±(0.5%+1) | ±(0.05%+3) |
| AC voltage (V)   | 2V/20V/200V/600V                        | ±(0.8%+3)            | ±(0.8%+3) |            |
|                  | 200mV/2V/20V/200V/600V                  |                      |           | ±(0.5%+10) |
| DC current (A)   | 200uA/2mA/20mA/200mA/10A                | ±(0.8%+1)            |           |            |
|                  | 2mA/20mA/200mA/10A                      |                      | ±(0.8%+1) | ±(0.5%+5)  |
|                  | 200uA/2mA/200mA/10A                     | ±(1%+3)              |           |            |
| AC current (A)   | 20mA/200mA/10A                          |                      | ±(1%+3)   |            |
|                  | 2mA/20mA/200mA/10A                      |                      |           | ±(0.8%+10) |
|                  | 200Ω/2ΚΩ/20ΚΩ/200ΚΩ/ 2ΜΩ/2<br>0ΜΩ/200ΜΩ | ±(1%+2)              |           |            |
| Resistance (Ω)   |   |                      |           |            |
|                  | 200Ω/2ΚΩ/20ΚΩ/200ΚΩ/ 2ΜΩ/2<br>0ΜΩ       |                      | ±(1%+2)   | ±(0.3%+1)  |
|                  | 2nF/20nF/200nF/2μF/100μF                |                      | ±(4%+3)   |            |
| Capacitance (F)  | 2μF/200μF                               | ±(4%+3)              |           |            |
|                  |   | >50uF for refe<br>r. |           |            |
|                  | 20nF/200nF/2μF/20μF                     |                      |           | ±(4%+20)   |
| Frequency (Hz)   | 20KHz                                   |                      |           | ±(1.5%+5)  |
| Temperature (°C) | -40°C~1000°C                            |                      | ±(1%+5)   |            |
| Temperature (°F) | -40°F~1832°F                            |                      | ±(1%+8)   |            |



| Display count            |             | 2000      | 2000 | 2000 |
|--------------------------|-------------|-----------|------|------|
| Manual range             |             | √         | √    | √    |
| Battery test             | 12V/9V/1.5V | ±(2.5%+2) |      |      |
| Diode                    |             | √         | √    | V    |
| Auto power off           |             | <b>√</b>  | √    | V    |
| Continuity buzzer        |             | √         | √    | √    |
| Low battery indication   |             | √         | √    | V    |
| Data hold                |             | √         | √    | V    |
| Input impedance for DC V | ≥10MΩ       | V         | V    | V    |

### **Documents / Resources**



<u>UNI-T Meters UT151 Series Modern Digital Multimeters</u> [pdf] User Guide UT151A, UT151C, UT151F, UT151 Series, Modern Digital Multimeters, UT151 Series Modern Digital Multimeters, Digital Multimeters, Multimeters

# References

• Home - UNI-T | Measurement Meters, Testing Instruments and Thermal Imaging

Manuals+,