

UNI-T UT60S

The UNI-T UT60S is a digital multimeter (DMM) produced by UNI-T, a well-known manufacturer of electronic test and measurement instruments. The UT60S is designed for a variety of electrical measurement tasks, offering a range of features suitable for both professional and hobbyist use.



Key Features of the UNI-T UT60S:

1. Measurement Capabilities:

- **Voltage:** AC/DC voltage measurement.
- **Current:** AC/DC current measurement.
- **Resistance:** Resistance measurement.
- **Capacitance:** Capacitance measurement.
- **Frequency:** Frequency measurement.
- **Temperature:** Temperature measurement (with optional thermocouple probe).
- **Duty Cycle:** Duty cycle measurement.
- **Diode Test:** Diode testing.
- **Continuity Test:** Continuity testing with buzzer.

2. Display:

- The UT60S typically features a large, easy-to-read LCD display with a backlight for use in low-light conditions.

3. Safety:

- The multimeter is designed with safety in mind, often including features such as overload protection and compliance with safety standards like CAT III 600V and CAT II 1000V.

4. Build Quality:



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- The UT60S is built to be durable, with a rugged casing that can withstand the rigors of daily use in various environments.

5. Additional Features:

- **Data Hold:** Allows the user to freeze the displayed reading for easy recording.
- **Auto Power Off:** Helps conserve battery life by automatically turning off the multimeter after a period of inactivity.
- **Low Battery Indicator:** Alerts the user when the battery needs to be replaced.

6. Accessories:

- The UT60S typically comes with a set of test leads, a thermocouple probe (for temperature measurement), and a user manual. Some packages may also include a carrying case.

Typical Applications:

- **Electrical Maintenance:** Troubleshooting and maintenance of electrical systems and components.
- **Electronics Repair:** Diagnosing and repairing electronic devices and circuits.
- **Automotive:** Testing automotive electrical systems.
- **Home Use:** General household electrical testing and troubleshooting.

Specifications (may vary slightly depending on the model):

- **DC Voltage:** 600mV to 1000V, with a basic accuracy of $\pm(0.5\% + 2 \text{ digits})$.
- **AC Voltage:** 600mV to 750V, with a basic accuracy of $\pm(0.8\% + 3 \text{ digits})$.
- **DC Current:** 600 μ A to 10A, with a basic accuracy of $\pm(1.0\% + 3 \text{ digits})$.
- **AC Current:** 600 μ A to 10A, with a basic accuracy of $\pm(1.5\% + 3 \text{ digits})$.

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- **Resistance:** 600 Ω to 60M Ω , with a basic accuracy of $\pm(0.8\% + 3 \text{ digits})$.
- **Capacitance:** 60nF to 1000 μ F, with a basic accuracy of $\pm(2.5\% + 5 \text{ digits})$.
- **Frequency:** 10Hz to 10MHz, with a basic accuracy of $\pm(0.1\% + 3 \text{ digits})$.
- **Temperature:** -40°C to 1000°C, with a basic accuracy of $\pm(1.0\% + 3 \text{ digits})$.

Conclusion:

The UNI-T UT60S is a versatile and reliable digital multimeter suitable for a wide range of electrical and electronic measurement tasks. Its combination of features, safety, and build quality makes it a popular choice among professionals and hobbyists alike.