

Αξιολόγηση του SMD Uni-T UT116A

UNI-T · EAN 6935750511602

Machine translation from Polski. In case of doubt the manufacturer's original document prevails.

P/N:110401109046X

Thank you for purchasing the new SMD Component Tester. For safe and proper use of the product, please read this manual carefully, paying special attention to the safety instructions. After reading the manual, we recommend storing it in an easily accessible place, preferably near the device, so you can refer to it in the future. SCANNING Automatic identification Uni-Trend guarantees that the product is free from material and workmanship defects for a period of one year from the date of purchase. The warranty does not cover damages resulting from accident, neglect, improper use, modification, contamination, or incorrect handling. The seller is not authorized to provide any other warranties on behalf of Uni-Trend. In case of needing warranty service during the warranty period, please contact the seller directly. Uni-Trend is not responsible for any special, indirect, incidental, consequential damages or losses resulting from the use of the device. This product is a miniaturized, integrated, innovative device designed to measure parameters of SMD components: resistance, capacitance, and diodes (RCD). Additionally, it can be used to measure LED diodes, Zener diodes, check circuit continuity, and measure direct current voltage DC up to 36V. This Tester is an indispensable service tool in electronics factories.

Low battery power This Tester meets the requirements of Class 2 environmental safety and complies with European Union standards: it has CE certification (electromagnetic compatibility EMC). The Tester housing is made of plastic, and the test leads are gold-plated to protect against corrosion. Before using the Tester, please read this manual carefully, paying special attention to the safety instructions.

- UT116A 3000 (UT116C 6000) counts LCD Display
- Before each use, check that the Tester housing is not damaged.
- Automatic range selection

In case of any damage, do not use the Tester. Automatic identification of resistance, capacitance, and diode (only in UT116A)

- Check that the metal clamp arms are not damaged.
- Functions are selected using the SELECT Button.
- Do not apply direct current voltage DC exceeding 36V to the measurement port.
- Data hold
- Do not use the Tester in an atmosphere of explosive gases, vapors, or dust.
- On/Off test

Warning: Do not measure live circuits, except for the DC 36V range.

- Semiconductor test
- LED diode test

UT116A: DC MAX 36V test, UT116C: Battery voltage measurement

- Overload (OL)
- Low battery indicator

· Power source: 1.5 V (AAA) batteries × 2 Automatic shutdown: The Tester will automatically turn off if no operation is performed for more than 10 minutes (UT116A) or 15 minutes (UT116C). · Operating temperature and humidity: 0-40 °C (32-104 °F) and < 80% RH Storage temperature and humidity: -10-50 °C (14-122 °F) and < 70% RH . EC: MAX DC36V, EN61326-1:2013, EN61326-2-2:2013 · Dimensions (L x W x H) and weight: 204 x 33 x 25 mm, approximately 80 g · Operating conditions: (1) For indoor use only (2) Altitude: 2000 m Operating conditions: temperature 18°C ~ 28°C (64°F ~ 82°F), relative humidity < 75%; If the temperature is lower than 18°C or higher than 28°C, the additional error due to the temperature coefficient will be $0.1 \times (\text{specified accuracy}) / ^\circ\text{C}$. 1. SELECT Button: Used to select the function in resistance (R), diode (D), or capacitance (C) measurement mode. The Tester does not have a power switch. It turns on automatically when the batteries are inserted. To turn off the UT116A, press and hold the SELECT button for more than 2 seconds, only when set to measure R/D/C. Press and hold to restart. The Tester will automatically turn off if no operation is performed for 10 minutes. The UT116C will automatically turn off if no operation is performed for 15 minutes. To restart it, press the SELECT button. 2. HOLD Button: Pressing the HOLD button in any measurement mode switches the tester to data hold mode and retains the current measurement values. Pressing this button again cancels the data hold. Note: After turning off the UT116A, restarting the tester in R/D/C mode is possible by pressing the HOLD button or the SELECT button.

If the tester automatically turns off in a mode other than SCAN, and then is turned on using the buttons, it will enter HOLD mode and display the measurement value from before it was turned off. Press the HOLD button to cancel the data hold mode. 1) Set the function switch to range. 2) Press the SELECT button to choose automatic identification mode or diode testing mode. 3) Connect the positive test lead and the negative test lead to the appropriate terminals of the diode. 4) The LCD display will show the forward Voltage drop value (0.5 V - 0.8 V) of the measured silicon diode. 1) Set the function switch to the position. 2) Press the SELECT button to choose automatic identification or continuity test mode. The buzzer will sound when the resistance is less than (UT116A) or 500 (UT116C). 1) Set the function switch to the scale position. 2) Connect the input port and test port to the appropriate anode and cathode of the measured Zener diode or LED. The direction of connection of the anode and cathode can be reversed by rotating the test leads. $\pm(1.0\% + 5)$ 3) The LCD display will show the breakdown voltage of the Zener diode or the operating voltage of the LED. $60.600 \pm(1.5\% + 10)$ 1) Set the function switch to the DCV range. $\pm(2.5\% + 10)$ 2) Properly connect the test leads. $10\text{nF } 1\text{pF } \pm(3\% + 50)$ 3) The LCD display will show the measured voltage value

(UT116C: battery voltage measurement under load of about 10 mA). 100nF 10pF Note: Do not measure voltage in circuits other than battery in the battery voltage measurement mode of UT116C. 1nF Note: The forward current load is approximately 10 mA, no load in the reverse direction. Measuring battery voltage in the forward and reverse directions may show deviations. The battery voltage measured in the reverse direction may be overstated. 100nF $\pm(3.5\% + 25)$ 10mF $\pm(5\% + 50)$ 100mF 3.2 : 2 In the event of the following situations, the battery should be replaced to ensure proper operation of the tester. While using the tester, a symbol appears on the display. Battery replacement procedure: 1. Turn off the power. 2. Open the battery cover located on the bottom of the device to remove the battery. 3. Insert two new 1.5 V (AAA) batteries and secure the battery cover. · Clean the tester's casing with a damp cloth moistened with mild detergent. · Do not use abrasive materials or solvents! 10 7. Accessories: Two spare test leads Two 1.5 V (AAA) batteries The tester will turn on after the batteries are installed, the scale on the LCD display will show the SCAN symbol and ---, indicating that the tester is in automatic identification mode and will automatically identify and measure resistance, capacitance, diode, and on/off status. In automatic identification mode, the measurement value will be displayed on the LCD after the two test leads come into contact with the object. Warning Before measuring components on the PCB, high-voltage capacitors must be discharged and power disconnected. 1) Set the function button to scale. 2) Automatic identification mode and automatic range selection: 300.0–3 –3000M (only UT116A). 3) Press the SELECT button to choose the automatic resistance range selection mode. 4) The LCD display will show the OL message when the value exceeds the allowable range. 1) Automatic identification and automatic range: 3.000nF - 300.0uF (only UT116A). 2) Press the SELECT button to choose the automatic capacitance range mode. Warning To prevent damage to the tester or the measured components, power must be disconnected and high-voltage circuits completely discharged before measuring capacitance. surfaces. adapted for this purpose by the manufacturer.

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