

Code: UT-133A

UNIVERSAL METER **UT-133A** UNI-T



The UT-133A is a universal digital meter used to measure: voltage, current, resistance, capacity, frequency, temperature and checking the correct operation of diodes. The meter has the function of automatic change of measuring ranges, as well as a relative measurement mode (when measuring voltage, current and resistance).

Additionally, the UT-133A has an electric field detection (NCV) function.

DC voltage measurement:	$600 \text{ mV} \pm (0.7\% + 3) @ 0.1 \text{ mV}$, $6 \text{ V} \pm (0.5\% + 3) @ 0.001 \text{ V}$, $60 \text{ V} \pm (0.7\% + 3) @ 0.01 \text{ V}$, $600 \text{ V} \pm (0.7\% + 3) @ 0.1 \text{ V}$
AC voltage measurement:	$600 \text{ mV} \pm (1.0\% + 2) @ 0.1 \text{ mV}$, $6 \text{ V} \pm (0.7\% + 3) @ 0.001 \text{ V}$, $60 \text{ V} \pm (1.0\% + 2) @ 0.01 \text{ V}$, $600 \text{ V} \pm (1.2\% + 3) @ 0.1 \text{ V}$
DC current measurement:	$600 \mu\text{A} \pm (1.0\% + 3) @ 0.1 \mu\text{A}$, $6000 \mu\text{A} \pm (1.0\% + 3) @ 1 \mu\text{A}$, $60 \text{ mA} \pm (1.0\% + 3) @ 0.01 \text{ mA}$, $600 \text{ mA} \pm (1.0\% + 3) @ 0.1 \text{ mA}$, $6 \text{ A} \pm (1.2\% + 5) @ 0.001 \text{ A}$, $10 \text{ A} \pm (1.2\% + 5) @ 0.01 \text{ A}$
AC current measurement:	$600 \mu\text{A} \pm (1.2\% + 3) @ 0.1 \mu\text{A}$, $6000 \mu\text{A} \pm (1.2\% + 3) @ 1 \mu\text{A}$, $60 \text{ mA} \pm (1.2\% + 3) @ 0.01 \text{ mA}$, $600 \text{ mA} \pm (1.2\% + 3) @ 0.1 \text{ mA}$, $6 \text{ A} \pm (1.5\% + 5) @ 0.001 \text{ A}$, $10 \text{ A} \pm (1.5\% + 5) @ 0.01 \text{ A}$



DATA SHEET

Resistance measurement:	600 $\Omega \pm (1.0\% + 2)$ @ 0.1 Ω , 6 k $\Omega \pm (0.8\% + 2)$ @ 0.001 k Ω , 60 k $\Omega \pm (0.8\% + 2)$ @ 0.01 k Ω , 600 k $\Omega \pm (0.8\% + 2)$ @ 0.1 k Ω , 60 M $\Omega \pm (2.0\% + 5)$ @ 0.01 M Ω
Capacitance measurement:	9.999 nF $\pm (4\% + 10)$ @ 0.001 nF , 99.99 nF $\pm (4\% + 5)$ @ 0.01 nF , 999.9 nF $\pm (4\% + 5)$ @ 0.1 nF , 9.999 μ F $\pm (4\% + 5)$ @ 0.001 μ F , 99.99 μ F $\pm (4\% + 5)$ @ 0.01 μ F , 999.9 μ F $\pm (4\% + 5)$ @ 0.1 μ F , 9.999 mF $\pm (10\%)$ @ 0.001 mF
Inductance measurement:	—
Frequency measurement:	60 Hz ... 1 MHz $\pm (0.1\% + 5)$ @ 0.01 Hz ... 0.001 MHz
Square-wave signal duty ratio measurement:	—
Temperature measurement:	• $^{\circ}$ C : -40 ... 40 $^{\circ}$ C ± 4 @ 1 $^{\circ}$ C , >40 ... 500 $^{\circ}$ C $\pm (1.0\% + 4)$ @ 1 $^{\circ}$ C , >500 ... 1000 $^{\circ}$ C $\pm (2.0\% + 4)$ @ 1 $^{\circ}$ C , • $^{\circ}$ F : -40 ... 104 $^{\circ}$ F ± 5 @ 1 $^{\circ}$ F , >104 ... 932 $^{\circ}$ F $\pm (1.5\% + 5)$ @ 1 $^{\circ}$ F , >932 ... 1832 $^{\circ}$ F $\pm (2.5\% + 5)$ @ 1 $^{\circ}$ F
Automatic change of measuring ranges:	✓
hFE:	—
Diode test:	✓
Sound signal of the continuity test:	✓
Checking TTL logic states:	—
RS-232:	—
Main features:	<ul style="list-style-type: none">• NCV - electric field detection function,• REL - relative measurement mode,• Hold - stopping the meter reading,• Large, readable LCD display with backlight,• Aesthetic and solid construction,• Low battery level alarm
Power supply:	2 x 1.5V, type AAA/LR03 battery - included
Weight:	0.25 kg
Dimensions:	155 x 77 x 49 mm
Manufacturer / Brand:	UNI-T
Guarantee:	2 years