

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:	$600 \mu\text{A} \pm (1.2\% + 3) @ 0.1 \mu\text{A}$, $6000 \mu\text{A} \pm (1.2\% + 3) @ 1 \mu\text{A}$, $60 \text{ mA} \pm (1.2\% + 3) @ 0.01 \text{ mA}$, $600 \text{ mA} \pm (1.2\% + 3) @ 0.1 \text{ mA}$, $6 \text{ A} \pm (1.5\% + 5) @ 0.001 \text{ A}$, $10 \text{ A} \pm (1.5\% + 5) @ 0.01 \text{ A}$

Resistance measurement:	$600\ \Omega \pm (1.0\% + 2)\ @\ 0.1\ \Omega$, $6\ k\Omega \pm (0.8\% + 2)\ @\ 0.001\ k\Omega$, $60\ k\Omega \pm (0.8\% + 2)\ @\ 0.01\ k\Omega$, $600\ k\Omega \pm (0.8\% + 2)\ @\ 0.1\ k\Omega$, $60\ M\Omega \pm (2.0\% + 5)\ @\ 0.01\ M\Omega$
Capacitance measurement:	$9.999\ nF \pm (4\% + 10)\ @\ 0.001\ nF$, $99.99\ nF \pm (4\% + 5)\ @\ 0.01\ nF$, $999.9\ nF \pm (4\% + 5)\ @\ 0.1\ nF$, $9.999\ \mu F \pm (4\% + 5)\ @\ 0.001\ \mu F$, $99.99\ \mu F \pm (4\% + 5)\ @\ 0.01\ \mu F$, $999.9\ \mu F \pm (4\% + 5)\ @\ 0.1\ \mu F$, $9.999\ mF \pm (10\%)\ @\ 0.001\ mF$
Inductance measurement:	—
Frequency measurement:	60 Hz ... 1 MHz $\pm (0.1\% + 5)\ @\ 0.01\ Hz \dots 0.001\ MHz$
Square-wave signal duty ratio measurement:	—
Temperature measurement:	• °C : -40 ... 40 °C $\pm 4\ @\ 1\ ^\circ C$, >40 ... 500 °C $\pm (1.0\% + 4)\ @\ 1\ ^\circ C$, >500 ... 1000 °C $\pm (2.0\% + 4)\ @\ 1\ ^\circ C$, • °F : -40 ... 104 °F $\pm 5\ @\ 1\ ^\circ F$, >104 ... 932 °F $\pm (1.5\% + 5)\ @\ 1\ ^\circ F$, >932 ... 1832 °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:	• 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