

Code: UT-139B

UNIVERSAL METER **UT-139B** UNI-T

The UT-139B is a universal digital meter used to measure: voltage, current, resistance, capacitance, frequency, and checking the correctness of diodes operation. The meter has the function of automatic change of measuring ranges, as well as the relative measurement mode.

For AC measurements, the device has a built-in filter that eliminates high-frequency disturbances that may affect the measurement accuracy (VFC). Additionally, the UT-139B has an electric field detection (NCV) function.



DC voltage measurement:	$40 \text{ mV} \pm (0.7\% + 2) @ 10 \text{ } \mu\text{V}$, $400 \text{ mV} \pm (0.5\% + 2) @ 0.1 \text{ mV}$, $4 \text{ V} \pm (0.7\% + 3) @ 1 \text{ mV}$, $40 \text{ V} \pm (0.7\% + 3) @ 10 \text{ mV}$, $400 \text{ V} \pm (0.7\% + 3) @ 0.1 \text{ V}$, $600 \text{ V} \pm (0.7\% + 3) @ 1 \text{ V}$
AC voltage measurement:	<ul style="list-style-type: none"> V.F.C. OFF (45 Hz ... 400 Hz) : $40 \text{ mV} \pm (1\% + 3) @ 10 \text{ } \mu\text{V}$, $400 \text{ mV} \pm (1\% + 3) @ 0.1 \text{ mV}$, $4 \text{ V} \pm (0.8\% + 3) @ 1 \text{ mV}$, $40 \text{ V} \pm (0.8\% + 3) @ 10 \text{ mV}$, $400 \text{ V} \pm (0.8\% + 3) @ 0.1 \text{ V}$, $600 \text{ V} \pm (1\% + 3) @ 1 \text{ V}$, <ul style="list-style-type: none"> V.F.C. ON (45 Hz ... 400 Hz) : $200 \text{ V} \dots 600 \text{ V} \pm (4\% + 3) @ 0.1 \text{ V} / 1 \text{ V}$
DC current measurement:	$400 \text{ } \mu\text{A} \pm (0.7\% + 2) @ 0.1 \text{ } \mu\text{A}$, $4000 \text{ } \mu\text{A} \pm (0.7\% + 2) @ 1 \text{ } \mu\text{A}$, $40 \text{ mA} \pm (0.7\% + 2) @ 10 \text{ } \mu\text{A}$, $400 \text{ mA} \pm (0.7\% + 2) @ 0.1 \text{ mA}$, $4 \text{ A} \pm (1\% + 3) @ 1 \text{ mA}$, $10 \text{ A} \pm (1\% + 3) @ 10 \text{ mA}$

AC current measurement:	400 μ A \pm (1% + 3) @ 0.1 μ A , 4000 μ A \pm (1% + 3) @ 1 μ A , 40 mA \pm (1% + 3) @ 10 μ A , 400 mA \pm (1% + 3) @ 0.1 mA , 4 A \pm (1.2% + 3) @ 1 mA , 10 A \pm (1.2% + 3) @ 10 mA
Resistance measurement:	400 Ω \pm (1% + 2) @ 0.1 Ω , 4 k Ω \pm (0.8% + 2) @ 1 Ω , 40 k Ω \pm (0.8% + 2) @ 10 Ω , 400 k Ω \pm (0.8% + 2) @ 100 Ω , 4 M Ω \pm (1.2% + 2) @ 1 k Ω , 40 M Ω \pm (1.5% + 3) @ 10 k Ω
Capacitance measurement:	9.999 nF \pm (4% + 10) - in relative measurement mode @ 1 pF , 99.99 nF ... 999.9 μ F \pm (4% + 5) @ 10 pF ... 0.1 nF , 9.999 mF ... 99.99 mF \pm 10% (\leq 2 mF) @ 1 μ F ... 10 μ F
Inductance measurement:	—
Frequency measurement:	9.999 Hz ... 9.999 MHz \pm (0.1% + 4) @ 0.001 Hz ... 0.001 MHz , 1 % ... 99.9 % @ 0.1 %
Square-wave signal duty ratio measurement:	✓
Temperature measurement:	—
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, • V.F.C. function - allows to measure the AC voltage values using low-pass filter with a frequency limit of 400 Hz, • REL - relative measurement mode, • Hold - stopping the meter reading, • Writing the value MAX / MIN, • Large, readable LCD display with backlight, • Aesthetic and solid construction, • Low battery level alarm
Power supply:	2 x 1.5V, type AA/LR6/FR6 battery - included
Weight:	0.42 kg
Dimensions:	176 x 81 x 48 mm
Manufacturer / Brand:	UNI-T
Guarantee:	2 years