

Code: UT-61C

UNIVERSAL METER **UT-61C** UNI-T

The UT-61C is a universal digital meter used to measure: voltage, current, resistance, capacitance, frequency, and checking the correctness of diodes operation.

The device has an automatic change of measuring ranges.



DC voltage measurement:	$60 \text{ mV} \pm (0.8\% + 3) \text{ } 0.01 \text{ mV}$, $600 \text{ mV} \pm (0.8\% + 3) \text{ } @ 0.1 \text{ mV}$, $6 \text{ V} \pm (0.5\% + 1) \text{ } @ 0.001 \text{ V}$, $60 \text{ V} \pm (0.5\% + 1) \text{ } @ 0.01 \text{ V}$, $600 \text{ V} \pm (0.5\% + 1) \text{ } @ 0.1 \text{ V}$, $1000 \text{ V} \pm (1\% + 3) \text{ } @ 0.1 \text{ V}$
AC voltage measurement:	$60 \text{ mV} @ 0.01 \text{ mV} : \pm (1.2\% + 5) \text{ } @ 45 \text{ Hz} \dots 1 \text{ kHz}$ $600 \text{ mV} @ 0.1 \text{ mV} : \pm (1.2\% + 5) \text{ } @ 45 \text{ Hz} \dots 1 \text{ kHz}$ $6 \text{ V} @ 0.001 \text{ V} : \pm (1\% + 3) \text{ } @ 45 \text{ Hz} \dots 1 \text{ kHz}$ $60 \text{ V} @ 0.01 \text{ V} : \pm (1\% + 3) \text{ } @ 45 \text{ Hz} \dots 1 \text{ kHz}$ $600 \text{ V} @ 0.1 \text{ V} : \pm (1\% + 3) \text{ } @ 45 \text{ Hz} \dots 1 \text{ kHz}$ $750 \text{ V} @ 1 \text{ V} : \pm (1.2\% + 5) \text{ } @ 45 \text{ Hz} \dots 1 \text{ kHz}$
DC current measurement:	$600 \text{ } \mu\text{A} \pm (1\% + 3) \text{ } @ 0.1 \text{ } \mu\text{A}$, $6000 \text{ } \mu\text{A} \pm (1\% + 3) \text{ } @ 1 \text{ } \mu\text{A}$, $60 \text{ mA} \pm (1\% + 3) \text{ } @ 0.01 \text{ mA}$, $600 \text{ mA} \pm (1\% + 3) \text{ } @ 0.1 \text{ mA}$, $6 \text{ A} \pm (1.2\% + 5) \text{ } @ 0.001 \text{ A}$, $10 \text{ A} \pm (1.2\% + 5) \text{ } @ 0.01 \text{ A}$

AC current measurement:	600 μ A @ 0.1 μ A : $\pm$ (1.2% + 5) @ 45 Hz ... 1 kHz 6000 μ A @ 1 μ A : $\pm$ (1.2% + 5) @ 45 Hz ... 1 kHz 60 mA @ 0.01 mA : $\pm$ (1.5%+5) @ 45 Hz ... 1 kHz 600 mA @ 0.1 mA : $\pm$ (1.5%+5) @ 45 Hz ... 1 kHz 6 A @ 0.001 A : $\pm$ (2% + 5) @ 45 Hz ... 1 kHz 10 A @ 0.01 A : $\pm$ (2% + 5) @ 45 Hz ... 1 kHz
Resistance measurement:	600 Ω $\pm$ (1.2% + 2) @ 0.1 Ω , 6 k Ω $\pm$ (1% + 2) @ 1 Ω , 60 k Ω $\pm$ (1% + 2) @ 10 Ω , 600 k Ω $\pm$ (1% + 2) @ 100 Ω , 6 M Ω $\pm$ (1.2% + 2) @ 1 k Ω , 60 M Ω $\pm$ (1.5% + 2) @ 10 k Ω
Capacitance measurement:	40 nF $\pm$ (3% + 5) @ 10 pF , 400 nF $\pm$ (3% + 5) @ 100 pF , 4 μ F $\pm$ (3% + 5) @ 1 nF , 40 μ F $\pm$ (3% + 5) @ 10 nF , 400 μ F $\pm$ (4% + 5) @ 100 nF , 4000 μ F @ 1 μ F
Inductance measurement:	—
Frequency measurement:	10 Hz ... 10 MHz $\pm$ (0.1 + 4)
Temperature measurement:	• $^{\circ}$ C -40 ... -20 $^{\circ}$ C - (8% + 6) @ 1 $^{\circ}$ C -20 ... 0 $^{\circ}$ C $\pm$ (1.2% + 4) @ 1 $^{\circ}$ C 0 ... 100 $^{\circ}$ C $\pm$ (1.2% + 3) @ 1 $^{\circ}$ C 100 ... 1000 $^{\circ}$ C $\pm$ (2.5% + 2) @ 1 $^{\circ}$ C , • $^{\circ}$ F -40 ... 4 $^{\circ}$ F $\pm$ (8% + 6) @ 1 $^{\circ}$ F 4 ... 32 $^{\circ}$ F $\pm$ (1.2% + 5) @ 1 $^{\circ}$ F 32 ... 212 $^{\circ}$ F $\pm$ (1.2% + 4) @ 1 $^{\circ}$ F 212 ... 1832 $^{\circ}$ F (2.5% + 3) @ 1 $^{\circ}$ F
Automatic change of measuring ranges:	✓
hFE:	—
Diode test:	✓
Sound signal of the continuity test:	✓
Checking TTL logic states:	—
RS-232:	✓
USB:	—
Main features:	• Large, readable LCD display with backlight • Writing the value MAX / MIN • Hold - stopping the meter reading • REL - relative measurement mode • Bargraf - analog bar - 61 segments • Aesthetic and solid construction
Power supply:	9V, type 6F22 battery - included
Weight:	0.35 kg
Dimensions:	180 x 87 x 45 mm
Manufacturer / Brand:	UNI-T
Guarantee:	2 years