

Code: UT-61E

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

The UT-61E 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:	220 mV ± (0.1% + 5) @ 0.01 mV , 2.2 V ± (0.1% + 2) @ 0.1 mV , 22 V ± (0.1% + 2) @ 1 mV , 220 V ± (0.1% + 2) @ 10 mV , 1000 V ± (0.1% + 5) @ 0.1 V
AC voltage measurement:	• 220 mV @ 0.01 mV : ± (1% + 10) @ 45 Hz ... 1 kHz ± (1.5% + 50) @ 1 kHz ... 10 kHz • 2.2 V @ 0.1 mV : ± (0.8% + 10) @ 45 Hz ... 1 kHz ± (1.2% + 50) @ 1 kHz ... 10 kHz • 22 V @ 1 mV : ± (0.8% + 10) @ 45 Hz ... 1 kHz ± (1.2% + 50) @ 1 kHz ... 10 kHz • 220 V @ 0.01 V : ± (0.8% + 10) @ 45 Hz ... 1 kHz ± (2% + 50) @ 1 kHz ... 10 kHz • 750 V @ 0.1 V : ± (1.2% + 10) @ 45 Hz ... 1 kHz ± (3% + 50) @ 1 kHz ... 10 kHz

DC current measurement:	$220\ \mu\text{A} \pm (0.5\% + 10)\ @\ 0.01\ \mu\text{A}$, $2200\ \mu\text{A} \pm (0.5\% + 10)\ @\ 0.1\ \mu\text{A}$, $22\ \text{mA} \pm (0.5\% + 10)\ @\ 0.001\ \text{mA}$, $220\ \text{mA} \pm (0.5\% + 10)\ @\ 0.01\ \text{mA}$, $2.2\ \text{A} \pm (1.2\% + 50)\ @\ 0.001\ \text{A}$, $10\ \text{A} \pm (1.2\% + 50)\ @\ 0.001\ \text{A}$
AC current measurement:	• $220\ \mu\text{A} @\ 0.01\ \mu\text{A}$: $\pm (0.8\% + 10)\ @\ 45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (1.2\% + 50)\ @\ 1\ \text{kHz} \dots 10\ \text{kHz}$ • $2200\ \mu\text{A} @\ 0.1\ \mu\text{A}$: $\pm (0.8\% + 10)\ @\ 45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (1.2\% + 50)\ @\ 1\ \text{kHz} \dots 10\ \text{kHz}$ • $22\ \text{mA} @\ 0.001\ \text{mA}$: $\pm (1.2\% + 10)\ @\ 45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (1.5\% + 50)\ @\ 1\ \text{kHz} \dots 10\ \text{kHz}$ • $220\ \text{mA} @\ 0.01\ \text{mA}$: $\pm (1.2\% + 10)\ @\ 45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (1.5\% + 50)\ @\ 1\ \text{kHz} \dots 10\ \text{kHz}$ • $2.2\ \text{A} @\ 0.1\ \text{mA}$: $\pm (0.8\% + 10)\ @\ 45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (0.8\% + 10)\ @\ 1\ \text{kHz} \dots 5\ \text{kHz}$ • $10\ \text{A} @\ 0.001\ \text{A}$: $\pm (1.5\% + 10)\ @\ 45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (2\% + 50)\ @\ 1\ \text{kHz} \dots 10\ \text{kHz}$
Resistance measurement:	$220\ \Omega \pm (1.2\% + 2)\ @\ 0.1\ \Omega$, $2.2\ \text{k}\Omega \pm (1\% + 2)\ @\ 1\ \Omega$, $22\ \text{k}\Omega \pm (1\% + 2)\ @\ 10\ \Omega$, $220\ \text{k}\Omega \pm (1\% + 2)\ @\ 100\ \Omega$, $2.2\ \text{M}\Omega \pm (1.2\% + 2)\ @\ 1\ \text{k}\Omega$, $22\ \text{M}\Omega \pm (1.5\% + 2)\ @\ 10\ \text{k}\Omega$, $220\ \text{M}\Omega \pm (3\% + 50)\ @\ 0.01\ \text{M}\Omega$
Capacitance measurement:	$22\ \text{nF} \pm (3\% + 5)\ @\ 0.001\ \text{nF}$, $220\ \text{nF} \pm (3\% + 5)\ @\ 0.01\ \text{nF}$, $2.2\ \mu\text{F} \pm (3\% + 5)\ @\ 0.1\ \text{nF}$, $22\ \mu\text{F} \pm (3\% + 5)\ @\ 1\ \text{nF}$, $2.2\ \text{mF} \pm (4\% + 5)\ @\ 0.0001\ \text{mF}$, $22\ \text{mF} \pm (4\% + 5)\ @\ 0.001\ \text{mF}$, $220\ \text{mF} @\ 0.01\ \text{mF}$
Inductance measurement:	—
Frequency measurement:	10 Hz ... 220 MHz $\pm (0.01 + 5)$
Temperature measurement:	—
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 peak • Hold - stopping the meter reading • REL - relative measurement mode • Bargraf - analog bar - 46 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