

Code: UT-71E

UNIVERSAL METER **UT-71E** UNI-T

The UT-71E is a universal digital meter used to measure: voltage, current, resistance, power, capacity, frequency, temperature and checking the correct operation of diodes. The meter has the function of automatic change of measuring ranges, as well as the relative measurement mode.



DC voltage measurement:	400 mV $\pm (0.025\% + 5)$ @ 0.01 mV , 4 V $\pm (0.05\% + 5)$ @ 0.0001 V , 40 V $\pm (0.05\% + 5)$ @ 0.001 V , 400 V $\pm (0.05\% + 5)$ @ 0.01 V , 1000 V $\pm (0.1\% + 8)$ @ 0.1 V
AC voltage measurement:	• 4 V @ 0.0001 V : $\pm (0.4\% + 30)$ @ 45 Hz ... 1 kHz $\pm (3\% + 30)$ @ 1 kHz ... 10 kHz $\pm (6\% + 30)$ @ 10 kHz ... 100 kHz • 40 V @ 0.001 V : $\pm (0.4\% + 30)$ @ 45 Hz ... 1 kHz $\pm (3\% + 30)$ @ 1 kHz ... 10 kHz $\pm (6\% + 30)$ @ 10 kHz ... 100 kHz • 400 V @ 0.01 V : $\pm (0.4\% + 30)$ @ 45 Hz ... 1 kHz $\pm (5\% + 30)$ @ 1 kHz ... 10 kHz • 1000 V @ 0.1 V : $\pm (1\% + 30)$ @ 45 Hz ... 1 kHz $\pm (5\% + 30)$ @ 1 kHz ... 5 kHz $\pm (10\% + 30)$ @ 5 kHz ... 100 kHz

DC current measurement:	$400\ \mu\text{A} \pm (0.1\% + 15)$ @ $0.01\ \mu\text{A}$, $4000\ \mu\text{A} \pm (0.1\% + 15)$ @ $0.1\ \mu\text{A}$, $40\ \text{mA} \pm (0.15\% + 15)$ @ $0.001\ \text{mA}$, $400\ \text{mA} \pm (0.15\% + 15)$ @ $0.01\ \text{mA}$, $10\ \text{A} \pm (0.5\% + 30)$ @ $0.001\ \text{A}$
AC current measurement:	• $400\ \mu\text{A}$ @ $0.01\ \mu\text{A}$: $\pm (0.7\% + 15)$ @ $45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (1\% + 40)$ @ $1\ \text{kHz} \dots 10\ \text{kHz}$ • $4000\ \mu\text{A}$ @ $0.1\ \mu\text{A}$: $\pm (0.7\% + 15)$ @ $45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (1\% + 40)$ @ $1\ \text{kHz} \dots 10\ \text{kHz}$ • $40\ \text{mA}$ @ $0.001\ \text{mA}$: $\pm (0.7\% + 15)$ @ $45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (1\% + 40)$ @ $1\ \text{kHz} \dots 10\ \text{kHz}$ • $400\ \text{mA}$ @ $0.01\ \text{mA}$: $\pm (0.7\% + 15)$ @ $45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (1\% + 40)$ @ $1\ \text{kHz} \dots 10\ \text{kHz}$ • $10\ \text{A}$ @ $0.001\ \text{A}$: $\pm (1.5\% + 20)$ @ $45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (5\% + 40)$ @ $1\ \text{kHz} \dots 10\ \text{kHz}$
Resistance measurement:	$400\ \Omega \pm (0.3\% + 8)$ + test leads resistance @ $0.01\ \Omega$, $4\ \text{k}\Omega \pm (0.3\% + 8)$ @ $0.0001\ \text{k}\Omega$, $40\ \text{k}\Omega \pm (0.3\% + 8)$ @ $0.001\ \text{k}\Omega$, $400\ \text{k}\Omega \pm (0.5\% + 20)$ @ $0.01\ \text{k}\Omega$, $4\ \text{M}\Omega \pm (1\% + 40)$ @ $0.0001\ \text{M}\Omega$, $40\ \text{M}\Omega \pm (1.5\% + 40)$ @ $0.001\ \text{M}\Omega$
Capacitance measurement:	$40\ \text{nF} \pm (1\% + 20)$ + capacity of test leads @ $0.001\ \text{nF}$, $400\ \text{nF} \pm (1\% + 20)$ @ $0.01\ \text{nF}$, $4\ \mu\text{F} \pm (1\% + 20)$ @ $0.0001\ \mu\text{F}$, $40\ \mu\text{F} \pm (1\% + 20)$ @ $0.001\ \mu\text{F}$, $400\ \mu\text{F} \pm (1.2\% + 20)$ @ $0.01\ \mu\text{F}$, $4\ \text{mF} \pm (5\% + 20)$ @ $0.0001\ \text{mF}$, $40\ \text{mF}$ @ $0.001\ \text{mF}$
Inductance measurement:	—
Frequency measurement:	$40\ \text{Hz} \pm (0.01\% + 8)$ @ $0.001\ \text{Hz}$ $400\ \text{Hz} \pm (0.01\% + 8)$ @ $0.01\ \text{Hz}$ $4\ \text{kHz} \pm (0.01\% + 8)$ @ $0.0001\ \text{Hz}$ $40\ \text{kHz} \pm (0.01\% + 8)$ @ $0.001\ \text{Hz}$ $400\ \text{kHz} \pm (0.01\% + 8)$ @ $0.01\ \text{Hz}$ $4\ \text{MHz} \pm (0.01\% + 8)$ @ $0.0001\ \text{MHz}$ $40\ \text{MHz} \pm (0.01\% + 8)$ @ $0.001\ \text{Hz}$ $400\ \text{MHz}$ @ $0.01\ \text{MHz}$ - visual measurement
Temperature measurement:	• °C $-40 \dots 40\ ^\circ\text{C} \pm (3\% + 30)$ @ $0.1\ ^\circ\text{C}$ $40 \dots 400\ ^\circ\text{C} \pm (1\% + 30)$ @ $0.1\ ^\circ\text{C}$ $400 \dots 1000\ ^\circ\text{C} \pm 2.5\%$ @ $0.1\ ^\circ\text{C}$, • °F $-40 \dots 32\ ^\circ\text{F} \pm (4\% + 50)$ @ $0.1\ ^\circ\text{F}$ $32 \dots 752\ ^\circ\text{F} \pm (1.5\% + 50)$ @ $0.1\ ^\circ\text{F}$ $752 \dots 1832\ ^\circ\text{F} \pm 3\%$ @ $0.1\ ^\circ\text{F}$
Power measurement:	• Nominal power : $2500\ \text{W} \pm (2\% + 10)$ @ $0.1\ \text{W}$, • Apparent Power : $2500\ \text{VA} \pm (2\% + 10)$ @ $0.1\ \text{VA}$, • Power factor ($\cos\varphi$) : $0 \dots 1 \pm (1\% + 10)$ @ 0.001 ,
Automatic change of measuring ranges:	✓

hFE:	—
Diode test:	✓
Sound signal of the continuity test:	✓
RS-232:	—
Checking TTL logic states:	—
USB:	✓
Main features:	• Freezing the last reading, • Freezing the highest or lowest measurement, • Writing the value peak, • REL - relative measurement mode, • Analog bargraph, • Possibility to save readings, access saved results and send them to a computer using the USB interface, • Large, readable LCD display with backlight, • Low battery level alarm, • Aesthetic and solid construction, • The set includes short test leads with crocodile clips, • The set includes a practical case
Power supply:	9V, type 6F22 battery - included
Weight:	0.38 kg
Dimensions:	203 x 93 x 40 mm
Manufacturer / Brand:	UNI-T
Guarantee:	2 years