

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:	<p>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</p>
AC voltage measurement:	<ul style="list-style-type: none"> • 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:	<p>400 μA \pm (0.1% + 15) @ 0.01 μA , 4000 μA \pm (0.1% + 15) @ 0.1 μA , 40 mA \pm (0.15% + 15) @ 0.001 mA , 400 mA \pm (0.15% + 15) @ 0.01 mA , 10 A \pm (0.5% + 30) @ 0.001 A</p>
AC current measurement:	<ul style="list-style-type: none"> • 400 μA @ 0.01 μA : \pm (0.7% + 15) @ 45 Hz ... 1 kHz \pm (1% + 40) @ 1 kHz ... 10 kHz • 4000 μA @ 0.1 μA : \pm (0.7% + 15) @ 45 Hz ... 1 kHz \pm (1% + 40) @ 1 kHz ... 10 kHz • 40 mA @ 0.001 mA : \pm (0.7% + 15) @ 45 Hz ... 1 kHz \pm (1% + 40) @ 1 kHz ... 10 kHz • 400 mA @ 0.01 mA : \pm (0.7% + 15) @ 45 Hz ... 1 kHz \pm (1% + 40) @ 1 kHz ... 10 kHz • 10 A @ 0.001 A : \pm (1.5% + 20) @ 45 Hz ... 1 kHz \pm (5% + 40) @ 1 kHz ... 10 kHz
Resistance measurement:	<p>400 Ω \pm (0.3% + 8) + test leads resistance @ 0.01 Ω , 4 kΩ \pm (0.3% + 8) @ 0.0001 kΩ , 40 kΩ \pm (0.3% + 8) @ 0.001 kΩ , 400 kΩ \pm (0.5% + 20) @ 0.01 kΩ , 4 MΩ \pm (1% + 40) @ 0.0001 MΩ , 40 MΩ \pm (1.5% + 40) @ 0.001 MΩ</p>
Capacitance measurement:	<p>40 nF \pm (1% + 20) + capacity of test leads @ 0.001 nF , 400 nF \pm (1% + 20) @ 0.01 nF , 4 μF \pm (1% + 20) @ 0.0001 μF , 40 μF \pm (1% + 20) @ 0.001 μF , 400 μF \pm (1.2% + 20) @ 0.01 μF , 4 mF \pm (5% + 20) @ 0.0001 mF 40 mF @ 0.001 mF</p>
Inductance measurement:	—
Frequency measurement:	<p>40 Hz \pm (0.01% + 8) @ 0.001 Hz 400 Hz \pm (0.01% + 8) @ 0.01 Hz 4 kHz \pm (0.01% + 8) @ 0.0001 Hz 40 kHz \pm (0.01% + 8) @ 0.001 Hz 400 kHz \pm (0.01% + 8) @ 0.01 Hz 4 MHz \pm (0.01% + 8) @ 0.0001 MHz 40 MHz \pm (0.01% + 8) @ 0.001 Hz 400 MHz @ 0.01 MHz - visual measurement</p>
Temperature measurement:	<ul style="list-style-type: none"> • $^{\circ}$C -40 ... 40 $^{\circ}$C \pm (3% + 30) @ 0.1 $^{\circ}$C 40 ... 400 $^{\circ}$C \pm (1% + 30) @ 0.1 $^{\circ}$C 400 ... 1000 $^{\circ}$C \pm 2.5% @ 0.1 $^{\circ}$C, • $^{\circ}$F -40 ... 32 $^{\circ}$F \pm (4% + 50) @ 0.1 $^{\circ}$F 32 ... 752 $^{\circ}$F \pm (1.5% + 50) @ 0.1 $^{\circ}$F 752 ... 1832 $^{\circ}$F \pm 3% @ 0.1 $^{\circ}$F
Power measurement:	<ul style="list-style-type: none"> • Nominal power : 2500 W \pm (2% + 10) @ 0.1 W, • Apparent Power : 2500 VA \pm (2% + 10) @ 0.1 VA, • Power factor (cosφ) : 0 ... 1 \pm (1% + 10) @ 0.001,
Automatic change of measuring ranges:	✓





DATA SHEET

hFE:	—
Diode test:	✓
Sound signal of the continuity test:	✓
RS-232:	—
Checking TTL logic states:	—
USB:	✓
Main features:	<ul style="list-style-type: none">• 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