

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 ± (0.025% + 5) @ 0.01 mV ,          4 V ± (0.05% + 5) @ 0.0001 V ,          40 V ± (0.05% + 5) @ 0.001 V ,          400 V ± (0.05% + 5) @ 0.01 V ,          1000 V ± (0.1% + 8) @ 0.1 V</p>
AC voltage measurement:	<ul style="list-style-type: none"> <li>• 4 V @ 0.0001 V :              ± (0.4% + 30) @ 45 Hz ... 1 kHz              ± (3% + 30) @ 1 kHz ... 10 kHz              ± (6% + 30) @ 10 kHz ... 100 kHz</li> <li>• 40 V @ 0.001 V :              ± (0.4% + 30) @ 45 Hz ... 1 kHz              ± (3% + 30) @ 1 kHz ... 10 kHz              ± (6% + 30) @ 10 kHz ... 100 kHz</li> <li>• 400 V @ 0.01 V :              ± (0.4% + 30) @ 45 Hz ... 1 kHz              ± (5% + 30) @ 1 kHz ... 10 kHz</li> <li>• 1000 V @ 0.1 V :              ± (1% + 30) @ 45 Hz ... 1 kHz              ± (5% + 30) @ 1 kHz ... 5 kHz              ± (10% + 30) @ 5 kHz ... 100 kHz</li> </ul>



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



hFE:	—
Diode test:	✓
Sound signal of the continuity test:	✓
RS-232:	—
Checking TTL logic states:	—
USB:	✓
Main features:	<ul style="list-style-type: none"><li>• Freezing the last reading,</li><li>• Freezing the highest or lowest measurement,</li><li>• Writing the value peak,</li><li>• REL - relative measurement mode,</li><li>• Analog bargraph,</li><li>• Possibility to save readings, access saved results and send them to a computer using the USB interface,</li><li>• Large, readable LCD display with backlight,</li><li>• Low battery level alarm,</li><li>• Aesthetic and solid construction,</li><li>• The set includes short test leads with crocodile clips,</li><li>• The set includes a practical case</li></ul>
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