

Code: UT-61E

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

Net: **71.31 EUR** Gross: **71.31 EUR**

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.



### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| DC voltage measurement: | 220 mV $\pm$ (0.1% + 5) @ 0.01 mV ,<br>2.2 V $\pm$ (0.1% + 2) @ 0.1 mV ,<br>22 V $\pm$ (0.1% + 2) @ 1 mV ,<br>220 V $\pm$ (0.1% + 2) @ 10 mV ,<br>1000 V $\pm$ (0.1% + 5) @ 0.1 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| AC voltage measurement: | <ul style="list-style-type: none"><li>• 220 mV @ 0.01 mV :<br/><math>\pm</math> (1% + 10) @ 45 Hz ... 1 kHz<br/><math>\pm</math> (1.5% + 50) @ 1 kHz ... 10 kHz</li><li>• 2.2 V @ 0.1 mV :<br/><math>\pm</math> (0.8% + 10) @ 45 Hz ... 1 kHz<br/><math>\pm</math> (1.2% + 50) @ 1 kHz ... 10 kHz</li><li>• 22 V @ 1 mV :<br/><math>\pm</math> (0.8% + 10) @ 45 Hz ... 1 kHz<br/><math>\pm</math> (1.2% + 50) @ 1 kHz ... 10 kHz</li><li>• 220 V @ 0.01 V :<br/><math>\pm</math> (0.8% + 10) @ 45 Hz ... 1 kHz<br/><math>\pm</math> (2% + 50) @ 1 kHz ... 10 kHz</li><li>• 750 V @ 0.1 V :<br/><math>\pm</math> (1.2% + 10) @ 45 Hz ... 1 kHz<br/><math>\pm</math> (3% + 50) @ 1 kHz ... 10 kHz</li></ul> |
| DC current measurement: | 220 $\mu$ A $\pm$ (0.5% + 10) @ 0.01 $\mu$ A ,<br>2200 $\mu$ A $\pm$ (0.5% + 10) @ 0.1 $\mu$ A ,<br>22 mA $\pm$ (0.5% + 10) @ 0.001 mA ,<br>220 mA $\pm$ (0.5% + 10) @ 0.01 mA ,<br>2.2 A $\pm$ (1.2% + 50) @ 0.001 A ,<br>10 A $\pm$ (1.2% + 50) @ 0.001 A                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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| AC current measurement:               | <ul style="list-style-type: none"> <li>• 220 <math>\mu</math>A @ 0.01 <math>\mu</math>A :<br/> <math>\pm (0.8\% + 10)</math> @ 45 Hz ... 1 kHz<br/> <math>\pm (1.2\% + 50)</math> @ 1 kHz ... 10 kHz</li> <li>• 2200 <math>\mu</math>A @ 0.1 <math>\mu</math>A :<br/> <math>\pm (0.8\% + 10)</math> @ 45 Hz ... 1 kHz<br/> <math>\pm (1.2\% + 50)</math> @ 1 kHz ... 10 kHz</li> <li>• 22 mA @ 0.001 mA :<br/> <math>\pm (1.2\% + 10)</math> @ 45 Hz ... 1 kHz<br/> <math>\pm (1.5\% + 50)</math> @ 1 kHz ... 10 kHz</li> <li>• 220 mA @ 0.01 mA :<br/> <math>\pm (1.2\% + 10)</math> @ 45 Hz ... 1 kHz<br/> <math>\pm (1.5\% + 50)</math> @ 1 kHz ... 10 kHz</li> <li>• 2.2 A @ 0.1 mA :<br/> <math>\pm (0.8\% + 10)</math> @ 45 Hz ... 1 kHz<br/> <math>\pm (0.8\% + 10)</math> @ 1 kHz ... 5 kHz</li> <li>• 10 A @ 0.001 A :<br/> <math>\pm (1.5\% + 10)</math> @ 45 Hz ... 1 kHz<br/> <math>\pm (2\% + 50)</math> @ 1 kHz ... 10 kHz</li> </ul> |
| Resistance measurement:               | 220 $\Omega \pm (1.2\% + 2)$ @ 0.1 $\Omega$ ,<br>2.2 k $\Omega \pm (1\% + 2)$ @ 1 $\Omega$ ,<br>22 k $\Omega \pm (1\% + 2)$ @ 10 $\Omega$ ,<br>220 k $\Omega \pm (1\% + 2)$ @ 100 $\Omega$ ,<br>2.2 M $\Omega \pm (1.2\% + 2)$ @ 1 k $\Omega$ ,<br>22 M $\Omega \pm (1.5\% + 2)$ @ 10 k $\Omega$ ,<br>220 M $\Omega \pm (3\% + 50)$ @ 0.01 M $\Omega$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Capacitance measurement:              | 22 nF $\pm (3\% + 5)$ @ 0.001 nF ,<br>220 nF $\pm (3\% + 5)$ @ 0.01 nF ,<br>2.2 $\mu$ F $\pm (3\% + 5)$ @ 0.1 nF ,<br>22 $\mu$ F $\pm (3\% + 5)$ @ 1 nF ,<br>2.2 mF $\pm (4\% + 5)$ @ 0.0001 mF ,<br>22 mF $\pm (4\% + 5)$ @ 0.001 mF ,<br>220 mF @ 0.01 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:                        | <ul style="list-style-type: none"> <li>• Large, readable LCD display with backlight</li> <li>• Writing the value peak</li> <li>• Hold - stopping the meter reading</li> <li>• REL - relative measurement mode</li> <li>• Bargraf - analog bar - 46 segments</li> <li>• Aesthetic and solid construction</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## PRESENTATION



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Rear view:



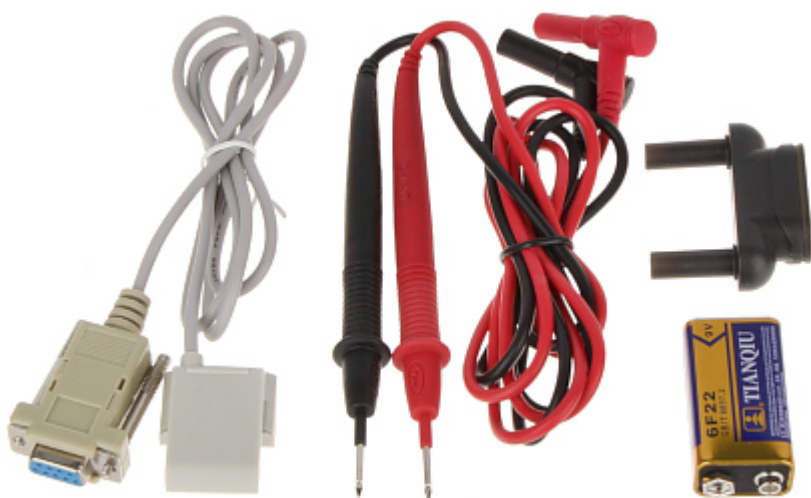
Place for 9V battery:



Included, among others measuring adapter:



In the kit:



## PACKAGE

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|----------------------------------|--------------------|
| Dimensions (L x W x H): 0x0x0 mm | Gross Weight: 0 kg |
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