

Code: UT-171B

UNIVERSAL METER **UT-171B** UNI-T

Net: **313.47 EUR** Gross: **313.47 EUR**



The UT-171B is a universal digital meter used to measure: voltage, current, resistance, inductance, capacitance, 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. Additionally, the UT-171B has an electric field detection (NCV) function.

SPECIFICATION

DC voltage measurement:	600 mV ± (0.025% + 5) @ 10 μV , 6 V ± (0.025% + 5) @ 100 μV , 60 V ± (0.025% + 5) @ 1 mV , 600 V ± (0.03% + 5) @ 10 mV , 1000 V ± (0.03% + 5) @ 100 mV
AC voltage measurement:	<ul style="list-style-type: none">• 600 mV @ 10 μV : ± (0.4% + 40) @ 45 Hz ... 1 kHz ± (5.0% + 40) @ >1 kHz ... 10 kHz ± (5.5% + 40) @ >10 kHz ... 20 kHz ± (8.0% + 40) @ >20 kHz ... 100 kHz• 6 V @ 100 μV : ± (0.4% + 40) @ 45 Hz ... 1 kHz ± (1.2% + 40) @ >1 kHz ... 10 kHz ± (3.0% + 40) @ >10 kHz ... 20 kHz ± (8.0% + 40) @ >20 kHz ... 100 kHz• 60 V @ 1 mV : ± (0.4% + 40) @ 45 Hz ... 1 kHz ± (1.2% + 40) @ >1 kHz ... 10 kHz ± (3.0% + 40) @ >10 kHz ... 20 kHz ± (6.0% + 40) @ >20 kHz ... 100 kHz• 600 V @ 10 mV : ± (0.4% + 30) @ 45 Hz ... 1 kHz ± (3.0% + 40) @ >1 kHz ... 10 kHz• 1000 V @ 100 mV : ± (0.6% + 40) @ 45 Hz ... 1 kHz ± (3.5% + 40) @ >1 kHz ... 10 kHz

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DC current measurement:	600 μ A \pm (0.25% + 20) @ 0.01 μ A , 6000 μ A \pm (0.25% + 2) @ 0.1 μ A , 60 mA \pm (0.15% + 10) @ 1 μ A , 600 mA \pm (0.15% + 10) @ 10 μ A , 6 A \pm (0.5% + 10) @ 100 μ A 10 A \pm (0.5% + 2) @ 1 mA
AC current measurement:	<ul style="list-style-type: none"> • 600 μA @ 0.01 μA : \pm (0.75% + 20) @ 45 Hz ... 1 kHz \pm (1.2% + 40) @ >1 kHz ... 20 kHz \pm (6.0% + 40) @ >20 kHz ... 100 kHz • 6000 μA @ 0.1 μA : \pm (0.75% + 20) @ 45 Hz ... 1 kHz \pm (1.2% + 40) @ >1 kHz ... 20 kHz \pm (3.0% + 40) @ >20 kHz ... 100 kHz • 60 mA @ 1 μA : \pm (0.75% + 20) @ 45 Hz ... 1 kHz \pm (1.2% + 40) @ >1 kHz ... 20 kHz \pm (9.0 + 40) @ >20 kHz ... 100 kHz • 600 mA @ 10 μA : \pm (0.75% + 20) @ 45 Hz ... 1 kHz \pm (1.5% + 10) @ >1 kHz ... 20 kHz \pm (4.0% + 40) @ >20 kHz ... 100 kHz • 6 A @ 100 μA : \pm (1.5% + 20) @ 45 Hz ... 1 kHz \pm (6.0% + 40) @ >1 kHz ... 20 kHz • 10 A @ 1 mA : \pm (1.5% + 5) @ 45 Hz ... 1 kHz \pm (5.0% + 10) @ >1 kHz ... 20 kHz
Resistance measurement:	600 Ω \pm (0.05% + 10) @ 0.01 Ω , 6 k Ω \pm (0.05% + 2) @ 0.1 Ω , 60 k Ω \pm (0.05% + 2) @ 1 Ω , 600 k Ω \pm (0.05% + 2) @ 10 Ω , 6 M Ω \pm (0.15% + 5) @ 100 Ω , 60 M Ω \pm (3.0% + 2) @ 1 k Ω
Capacitance measurement:	6 nF \pm (3.0% + 30) + capacity of test leads @ 1 pF , 60 nF ... 600 μ F \pm (2.5% + 5) @ 10 pF ... 100 nF , 6 mF ... 60 mF \pm 10% @ 1 μ F ... 10 μ F
Inductance measurement:	—
Frequency measurement:	60 Hz ... 10 MHz \pm (0.01% + 5) @ 0.001 Hz ... 0.001 MHz
Temperature measurement:	<ul style="list-style-type: none"> • $^{\circ}$C -40 ... 0 $^{\circ}$C \pm (2.0% + 30) @ 0.1 $^{\circ}$C >0 ... 100 $^{\circ}$C \pm (1.0% + 30) @ 0.1 $^{\circ}$C >100 ... 1000 $^{\circ}$C \pm 2.5% @ 0.1 $^{\circ}$C, • $^{\circ}$F -40 ... 32 $^{\circ}$F \pm (2.5% + 50) @ 0.1 $^{\circ}$F >32 ... 212 $^{\circ}$F \pm (1.5% + 50) @ 0.1 $^{\circ}$F >212 ... 1832 $^{\circ}$F \pm (2.5% + 50) @ 0.1 $^{\circ}$F
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"> • True RMS - accurate measurement of the RMS current and voltage for any waveform, • NCV - electric field detection function, • 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 a practical case
Power supply:	Built-in battery 7.4V / 1800mAh, the set includes a 10V / 500mA power supply and a power adapter for charging the battery
Weight:	0.53 kg
Dimensions:	206 x 95 x 55 mm
Manufacturer / Brand:	UNI-T
Guarantee:	2 years

PRESENTATION

Front panel:



Rear view:



Battery:



Power adapter:





In the kit:



Device is secured by handy case:



PACKAGE

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