

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:	$600\text{ mV} \pm (0.025\% + 5) @ 10\text{ }\mu\text{V}$, $6\text{ V} \pm (0.025\% + 5) @ 100\text{ }\mu\text{V}$, $60\text{ V} \pm (0.025\% + 5) @ 1\text{ mV}$, $600\text{ V} \pm (0.03\% + 5) @ 10\text{ mV}$, $1000\text{ V} \pm (0.03\% + 5) @ 100\text{ mV}$
AC voltage measurement:	• $600\text{ mV} @ 10\text{ }\mu\text{V}$: $\pm (0.4\% + 40) @ 45\text{ Hz} \dots 1\text{ kHz}$ $\pm (5.0\% + 40) @ >1\text{ kHz} \dots 10\text{ kHz}$ $\pm (5.5\% + 40) @ >10\text{ kHz} \dots 20\text{ kHz}$ $\pm (8.0\% + 40) @ >20\text{ kHz} \dots 100\text{ kHz}$ • $6\text{ V} @ 100\text{ }\mu\text{V}$: $\pm (0.4\% + 40) @ 45\text{ Hz} \dots 1\text{ kHz}$ $\pm (1.2\% + 40) @ >1\text{ kHz} \dots 10\text{ kHz}$ $\pm (3.0\% + 40) @ >10\text{ kHz} \dots 20\text{ kHz}$ $\pm (8.0\% + 40) @ >20\text{ kHz} \dots 100\text{ kHz}$ • $60\text{ V} @ 1\text{ mV}$: $\pm (0.4\% + 40) @ 45\text{ Hz} \dots 1\text{ kHz}$ $\pm (1.2\% + 40) @ >1\text{ kHz} \dots 10\text{ kHz}$ $\pm (3.0\% + 40) @ >10\text{ kHz} \dots 20\text{ kHz}$ $\pm (6.0\% + 40) @ >20\text{ kHz} \dots 100\text{ kHz}$ • $600\text{ V} @ 10\text{ mV}$: $\pm (0.4\% + 30) @ 45\text{ Hz} \dots 1\text{ kHz}$ $\pm (3.0\% + 40) @ >1\text{ kHz} \dots 10\text{ kHz}$ • $1000\text{ V} @ 100\text{ mV}$: $\pm (0.6\% + 40) @ 45\text{ Hz} \dots 1\text{ kHz}$ $\pm (3.5\% + 40) @ >1\text{ kHz} \dots 10\text{ kHz}$

DC current measurement:	$600\ \mu\text{A} \pm (0.25\% + 20)\ @\ 0.01\ \mu\text{A}$, $6000\ \mu\text{A} \pm (0.25\% + 2)\ @\ 0.1\ \mu\text{A}$, $60\ \text{mA} \pm (0.15\% + 10)\ @\ 1\ \mu\text{A}$, $600\ \text{mA} \pm (0.15\% + 10)\ @\ 10\ \mu\text{A}$, $6\ \text{A} \pm (0.5\% + 10)\ @\ 100\ \mu\text{A}$ $10\ \text{A} \pm (0.5\% + 2)\ @\ 1\ \text{mA}$
AC current measurement:	• $600\ \mu\text{A} @\ 0.01\ \mu\text{A}$: $\pm (0.75\% + 20)\ @\ 45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (1.2\% + 40)\ @\ >1\ \text{kHz} \dots 20\ \text{kHz}$ $\pm (6.0\% + 40)\ @\ >20\ \text{kHz} \dots 100\ \text{kHz}$ • $6000\ \mu\text{A} @\ 0.1\ \mu\text{A}$: $\pm (0.75\% + 20)\ @\ 45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (1.2\% + 40)\ @\ >1\ \text{kHz} \dots 20\ \text{kHz}$ $\pm (3.0\% + 40)\ @\ >20\ \text{kHz} \dots 100\ \text{kHz}$ • $60\ \text{mA} @\ 1\ \mu\text{A}$: $\pm (0.75\% + 20)\ @\ 45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (1.2\% + 40)\ @\ >1\ \text{kHz} \dots 20\ \text{kHz}$ $\pm (9.0 + 40)\ @\ >20\ \text{kHz} \dots 100\ \text{kHz}$ • $600\ \text{mA} @\ 10\ \mu\text{A}$: $\pm (0.75\% + 20)\ @\ 45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (1.5\% + 10)\ @\ >1\ \text{kHz} \dots 20\ \text{kHz}$ $\pm (4.0\% + 40)\ @\ >20\ \text{kHz} \dots 100\ \text{kHz}$ • $6\ \text{A} @\ 100\ \mu\text{A}$: $\pm (1.5\% + 20)\ @\ 45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (6.0\% + 40)\ @\ >1\ \text{kHz} \dots 20\ \text{kHz}$ • $10\ \text{A} @\ 1\ \text{mA}$: $\pm (1.5\% + 5)\ @\ 45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (5.0\% + 10)\ @\ >1\ \text{kHz} \dots 20\ \text{kHz}$
Resistance measurement:	$600\ \Omega \pm (0.05\% + 10)\ @\ 0.01\ \Omega$, $6\ \text{k}\Omega \pm (0.05\% + 2)\ @\ 0.1\ \Omega$, $60\ \text{k}\Omega \pm (0.05\% + 2)\ @\ 1\ \Omega$, $600\ \text{k}\Omega \pm (0.05\% + 2)\ @\ 10\ \Omega$, $6\ \text{M}\Omega \pm (0.15\% + 5)\ @\ 100\ \Omega$, $60\ \text{M}\Omega \pm (3.0\% + 2)\ @\ 1\ \text{k}\Omega$
Capacitance measurement:	$6\ \text{nF} \pm (3.0\% + 30) + \text{capacity of test leads @ } 1\ \text{pF}$, $60\ \text{nF} \dots 600\ \mu\text{F} \pm (2.5\% + 5)\ @\ 10\ \text{pF} \dots 100\ \text{nF}$, $6\ \text{mF} \dots 60\ \text{mF} \pm 10\% \ @\ 1\ \mu\text{F} \dots 10\ \mu\text{F}$
Inductance measurement:	—
Frequency measurement:	$60\ \text{Hz} \dots 10\ \text{MHz} \pm (0.01\% + 5)\ @\ 0.001\ \text{Hz} \dots 0.001\ \text{MHz}$
Temperature measurement:	• °C $-40 \dots 0\ ^\circ\text{C} \pm (2.0\% + 30)\ @\ 0.1\ ^\circ\text{C}$ $>0 \dots 100\ ^\circ\text{C} \pm (1.0\% + 30)\ @\ 0.1\ ^\circ\text{C}$ $>100 \dots 1000\ ^\circ\text{C} \pm 2.5\% \ @\ 0.1\ ^\circ\text{C}$ • °F $-40 \dots 32\ ^\circ\text{F} \pm (2.5\% + 50)\ @\ 0.1\ ^\circ\text{F}$ $>32 \dots 212\ ^\circ\text{F} \pm (1.5\% + 50)\ @\ 0.1\ ^\circ\text{F}$ $>212 \dots 1832\ ^\circ\text{F} \pm (2.5\% + 50)\ @\ 0.1\ ^\circ\text{F}$
Automatic change of measuring ranges:	✓
hFE:	—
Diode test:	✓
Sound signal of the continuity test:	✓
Checking TTL logic states:	—
RS-232:	—
USB:	✓





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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