

Code: UT-71A

UNIVERSAL METER **UT-71A** UNI-T

The UT-71A 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.



DC voltage measurement:	200 mV $\pm (0.1\% + 8)$ @ 0.01 mV , 2 V $\pm (0.1\% + 8)$ @ 0.0001 V , 20 V $\pm (0.1\% + 8)$ @ 0.001 V , 200 V $\pm (0.1\% + 8)$ @ 0.01 V , 1000 V $\pm (0.15\% + 8)$ @ 0.1 V
AC voltage measurement:	• 2 V @ 0.0001 V : $\pm (0.8\% + 40)$ @ 45 Hz ... 1 kHz $\pm (3\% + 40)$ @ 1 kHz ... 10 kHz $\pm (7\% + 40)$ @ 10 kHz ... 100 kHz • 20 V @ 0.001 V : $\pm (0.8\% + 40)$ @ 45 Hz ... 1 kHz $\pm (3\% + 40)$ @ 1 kHz ... 10 kHz $\pm (7\% + 40)$ @ 10 kHz ... 100 kHz • 200 V @ 0.01 V : $\pm (0.8\% + 40)$ @ 45 Hz ... 1 kHz $\pm (5\% + 40)$ @ 1 kHz ... 10 kHz • 1000 V @ 0.1 V : $\pm (1.5\% + 40)$ @ 45 Hz ... 1 kHz $\pm (6\% + 40)$ @ 1 kHz ... 5 kHz $\pm (10\% + 40)$ @ 5 kHz ... 100 kHz

DC current measurement:	$200\ \mu\text{A} \pm (0.2\% + 20)\ @\ 0.01\ \mu\text{A}$, $2000\ \mu\text{A} \pm (0.2\% + 20)\ @\ 0.1\ \mu\text{A}$, $20\ \text{mA} \pm (0.2\% + 20)\ @\ 0.001\ \text{mA}$, $200\ \text{mA} \pm (0.2\% + 20)\ @\ 0.01\ \text{mA}$, $10\ \text{A} \pm (0.8\% + 30)\ @\ 0.001\ \text{mA}$
AC current measurement:	• $200\ \mu\text{A} @\ 0.01\ \mu\text{A}$: $\pm (1\% + 15)\ @\ 45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (2\% + 40)\ @\ 1\ \text{kHz} \dots 10\ \text{kHz}$ • $2000\ \mu\text{A} @\ 0.1\ \mu\text{A}$: $\pm (1\% + 15)\ @\ 45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (2\% + 40)\ @\ 1\ \text{kHz} \dots 10\ \text{kHz}$ • $20\ \text{mA} @\ 0.001\ \text{mA}$: $\pm (1\% + 15)\ @\ 45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (2\% + 40)\ @\ 1\ \text{kHz} \dots 10\ \text{kHz}$ • $200\ \text{mA} @\ 0.01\ \text{mA}$: $\pm (1\% + 15)\ @\ 45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (2\% + 40)\ @\ 1\ \text{kHz} \dots 10\ \text{kHz}$ • $10\ \text{A} @\ 0.001\ \text{A}$: $\pm (2\% + 20)\ @\ 45\ \text{Hz} \dots 1\ \text{kHz}$ $\pm (2\% + 40)\ @\ 1\ \text{kHz} \dots 10\ \text{kHz}$
Resistance measurement:	$200\ \Omega \pm (0.5\% + 20) + \text{test leads resistance} @\ 0.01\ \Omega$, $2\ \text{k}\Omega \pm (0.5\% + 20)\ @\ 0.0001\ \text{k}\Omega$, $20\ \text{k}\Omega \pm (0.5\% + 20)\ @\ 0.001\ \text{k}\Omega$, $200\ \text{k}\Omega \pm (1\% + 20)\ @\ 0.01\ \text{k}\Omega$, $2\ \text{M}\Omega \pm (1\% + 40)\ @\ 0.0001\ \text{M}\Omega$, $20\ \text{M}\Omega \pm (1.5\% + 40)\ @\ 0.001\ \text{M}\Omega$
Capacitance measurement:	$20\ \text{nF} \pm (1.5\% + 20) + \text{capacity of test leads} @\ 0.001\ \text{nF}$, $200\ \text{nF} \pm (1.5\% + 20)\ @\ 0.01\ \text{nF}$, $2\ \mu\text{F} \pm (1.5\% + 20)\ @\ 0.0001\ \mu\text{F}$, $20\ \mu\text{F} \pm (1.5\% + 40)\ @\ 0.001\ \mu\text{F}$, $400\ \mu\text{F} \pm (1.5\% + 40)\ @\ 0.01\ \mu\text{F}$, $2\ \text{mF} \pm (5\% + 40)\ @\ 0.0001\ \text{mF}$, $20\ \text{mF} @\ 0.001\ \text{mF}$
Inductance measurement:	—
Frequency measurement:	$20\ \text{Hz} \pm (0.1\% + 15)\ @\ 0.001\ \text{Hz}$ $200\ \text{Hz} \pm (0.1\% + 15)\ @\ 0.01\ \text{Hz}$ $2\ \text{kHz} \pm (0.1\% + 15)\ @\ 0.0001\ \text{Hz}$ $20\ \text{kHz} \pm (0.1\% + 15)\ @\ 0.001\ \text{Hz}$ $200\ \text{kHz} \pm (0.1\% + 15)\ @\ 0.01\ \text{Hz}$ $2\ \text{MHz} \pm (0.1\% + 15)\ @\ 0.0001\ \text{MHz}$ $20\ \text{MHz} \pm (0.1\% + 15)\ @\ 0.001\ \text{Hz}$ $200\ \text{MHz} @\ 0.01\ \text{MHz}$
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:	• 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:	0.35 kg
Dimensions:	203 x 93 x 40 mm
Manufacturer / Brand:	UNI-T
Guarantee:	2 years