

Code: UT-139C

UNIVERSAL METER **UT-139C** UNI-T

The UT-139C is a universal digital meter used to measure: voltage, current, resistance, capacity, frequency, temperature and checking the correct operation of diodes. EF function - enables non-contact voltage detection eg in wires, in the range of 50V ... 400V.
The kit includes a thermocouple of type "K" (chromel/alumel).



DC voltage measurement:	40 mV $\pm$ (0.5% + 2) @ 10 μV , 400 mV $\pm$ (0.5% + 2) @ 0.1 mV , 4 V $\pm$ (0.7% + 3) @ 1 mV , 40 V $\pm$ (0.7% + 3) @ 10 mV , 400 V $\pm$ (0.7% + 3) @ 0.1 V , 600 V $\pm$ (0.7% + 3) @ 1 V
AC voltage measurement:	• V.F.C. OFF (45 Hz ... 1000 Hz) : 40 mV $\pm$ (1.0% + 3) @ 10 μV , 400 mV $\pm$ (1.0% + 3) @ 0.1 mV , 4 V $\pm$ (0.8% + 3) @ 1 mV , 40 V $\pm$ (0.8% + 3) @ 10 mV , 400 V $\pm$ (0.8% + 3) @ 0.1 V , 600 V $\pm$ (1.0% + 3) @ 1 V , • V.F.C. ON (45 Hz ... 400 Hz) : 200 V ... 600 V $\pm$ (4.0% + 3) @ 0.1 V / 1 V

DC current measurement:	$400 \mu A \pm (0.7\% + 2) @ 0.1 \mu A$, $4000 \mu A \pm (0.7\% + 2) @ 1 \mu A$, $40 mA \pm (0.7\% + 2) @ 10 \mu A$, $400 mA \pm (0.7\% + 2) @ 0.1 mA$, $4 A \pm (1.0\% + 3) @ 1 mA$, $10 A \pm (1.0\% + 3) @ 10 mA$, Current clamp measurement (not included) : $60 A$ $\pm (1.0\% + 3)$ $@ 0.01 A$
AC current measurement:	$400 \mu A \pm (1.0\% + 3) @ 0.1 \mu A$, $4000 \mu A \pm (1.0\% + 3) @ 1 \mu A$, $40 mA \pm (1.0\% + 3) @ 10 \mu A$, $400 mA \pm (1.0\% + 3) @ 0.1 mA$, $4 A \pm (1.2\% + 3) @ 1 mA$, $10 A \pm (1.2\% + 3) @ 10 mA$, Current clamp measurement (not included) : $60 A$ $\pm (1.2\% + 3)$ $@ 0.01 A$
Resistance measurement:	$400 \Omega \pm (1.0\% + 2) @ 0.1 \Omega$, $4 k\Omega \pm (1.0\% + 2) @ 1 \Omega$, $40 k\Omega \pm (1.0\% + 2) @ 10 \Omega$, $400 k\Omega \pm (1.0\% + 2) @ 100 \Omega$, $4 M\Omega \pm (1.0\% + 2) @ 1 k\Omega$, $40 M\Omega \pm (1.2\% + 3) @ 10 k\Omega$
Capacitance measurement:	$9.999 nF \pm (4.0\% + 10) @ 1 pF$, $99.99 nF \dots 999.9 \mu F \pm (4.0\% + 5) @ 10 pF / 0.1 \mu F$, $9.999 mF \dots 99.99 mF \pm 10.0\% (\leq 2 mF) @ 1 \mu F / 10 \mu F$
Inductance measurement:	—
Frequency measurement:	9.999 Hz ... 9.999 MHz $\pm (0.15 + 4) @ 0.001 Hz \dots 0.001 MHz$
Square-wave signal duty ratio measurement:	1 % ... 99.9 % @ 0.1 %
Temperature measurement:	• °C : $-40 \dots 0 ^\circ C \pm 3 @ 1 ^\circ C$, $0 \dots 100 ^\circ C \pm (1.0\% + 3) @ 1 ^\circ C$, $100 \dots 1000 ^\circ C \pm (2.0\% + 3) @ 1 ^\circ C$, • °F : $-40 \dots 32 ^\circ F \pm 5 @ 1 ^\circ F$, $32 \dots 212 ^\circ F \pm (1.5\% + 5) @ 1 ^\circ F$, $212 \dots 1832 ^\circ F \pm (2.5\% + 5) @ 1 ^\circ F$
hFE:	—
Diode test:	✓
Sound signal of the continuity test:	✓
Checking TTL logic states:	—
RS-232:	—

Main features:	• Large, readable LCD display with backlight • EF function - enables non-contact voltage detection eg in wires, in the range of 50V ... 400V • Hold - stopping the meter reading • REL - relative measurement mode • V.F.C. function - allows to measure the AC voltage values using low-pass filter with a frequency limit of 400 Hz • Aesthetic and solid construction
Power supply:	2 x 1.5V, type AA/LR6/FR6 battery - included
Dimensions:	176 x 81 x 48 mm
Manufacturer / Brand:	UNI-T
Guarantee:	2 years