DATA SHEET

Code: UT-139A

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

UT-139A is a universal digital meter used to measure: voltage, current, resistance. The meter has the function of automatic change of measuring ranges, as well as a relative measurement mode (when measuring voltage, current and resistance). The device also has a built-in battery tester.

For AC measurements, the device has a built-in filter that eliminates high-frequency disturbances that may affect the measurement accuracy (VFC). Additionally, the UT-139A has an electric field detection (NCV) function.

DC voltage measurement:	20 mV ± (0.7% + 2) @ 10 µV , 200 mV ± (0.5% + 2) @ 0.1 mV , 2 V ± (0.7% + 3) @ 1 mV , 20 V ± (0.7% + 3) @ 10 mV , 200 V ± (0.7% + 3) @ 0.1 V , 600 V ± (0.7% + 3) @ 1 V
AC voltage measurement:	• V.F.C. OFF (45 Hz ... 400 Hz) : 20 mV ± (1% + 3) @ 10 µV , 200 mV ± (1% + 3) @ 0.1 mV , 2 V ± (1% + 3) @ 1 mV , 20 V ± (1% + 3) @ 10 mV , 200 V ± (1% + 3) @ 0.1 V , 600 V ± (1.2% + 3) @ 1 V, • V.F.C. ON (45 Hz ... 400 Hz) : 200 V ... 600 V ± (4% + 3) @ 0.1 V / 1 V
DC current measurement:	200 µA ± (0.7% + 2) @ 0.1 µA , 2000 µA ± (0.7% + 2) @ 1 µA , 20 mA ± (0.7% + 2) @ 10 µA , 200 mA ± (0.7% + 2) @ 0.1 mA , 2 A ± (1.0% + 3) @ 1 mA , 10 A ± (1.0% + 3) @ 10 mA

AC current measurement:	200 µA ± (1% + 3) @ 0.1 µA , 2000 µA ± (1% + 3) @ 1 µA , 20 mA ± (1% + 3) @ 10 µA , 200 mA ± (1% + 3) @ 0.1 mA , 2 A ± (1.2% + 3) @ 1 mA , 10 A ± (1.2% + 3) @ 10 mA
Resistance measurement:	200 Ω ± (1% + 2) @ 0.1 Ω , 2 kΩ ± (1% + 2) @ 1 Ω , 20 kΩ ± (1% + 2) @ 10 Ω , 200 kΩ ± (1% + 2) @ 100 Ω , 2 MΩ ± (1% + 2) @ 1 kΩ , 20 MΩ ± (1.2% + 3) @ 10 kΩ
Capacitance measurement:	–
Inductance measurement:	–
Frequency measurement:	–
Square-wave signal duty ratio measurement:	–
Temperature measurement:	–
Automatic change of measuring ranges:	✓
hFE:	–
Diode test:	✓
Sound signal of the continuity test:	✓
Checking TTL logic states:	–
RS-232:	–
Main features:	• Measurement of the battery discharge level: 9V, 1.5V, • NCV - electric field detection function, • V.F.C. function - allows to measure the AC voltage values using low-pass filter with a frequency limit of 400 Hz, • REL - relative measurement mode, • Hold - stopping the meter reading, • Writing the value MAX / MIN, • Large, readable LCD display with backlight, • Aesthetic and solid construction, • Low battery level alarm
Power supply:	2 x 1.5V, type AA/LR6/FR6 battery - included
Weight:	0.42 kg
Dimensions:	176 x 81 x 48 mm
Manufacturer / Brand:	UNI-T
Guarantee:	2 years