





UT89X Series True RMS Digital Multimeters

Capacitor Measurement	
	Fully charged
	Charging in progress

LED Test (UT89XD only)	
	Normal LED, forward voltage within 11.1V DC
	LED not working



UT89XD

Features

Sampling rate: 3 times/s	Display count: 6000/20000
True RMS	AC frequency range: 45~1000Hz
Audible/visual alarm	Diode/continuity test
Capacitor charging indicator	Auto power off/auto backlight
Ergonomic design	Conductance 200nS (89XE)
Double injection molding	Data hold
Auto backlight	Function selection: SELECT

Specifications	Range	UT89X	UT89XD	UT89XE
DC voltage (V)	600mV/6V/60V/600V/1000V 200mV/2V/20V/200V/1000V	±(0.5%+2)	±(0.5%+2)	±(0.05%+5)
AC voltage (V)	6V/60V/600V/1000V 200mV/2V/20V/200V/1000V	±(0.8%+5)	±(0.8%+5)	±(0.8%+25)
DC current (A)	60μA/60mA/600mA/20A 60μA/6mA/60mA/600mA/20A 2000μA/200mA/20A	±(0.8%+8)	±(0.8%+8)	±(0.5%+4)
AC current (A)	60mA/600mA/20A 2000uA/200mA/20A	±(1%+12)	±(1%+12)	±(1.5%+15)
Resistance (Ω)	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ 200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/200MΩ	±(0.8%+3)	±(0.8%+3)	±(0.4%+5)
Capacitance (F)	100mF 200mF	±(2.5%+20)	±(2.5%+20)	±(4%+50)
Conductance (ns)	200nS			±(1.2%+50)
Frequency (Hz)	9.999Hz/9.999MHz 60MHz	±(0.1%+4)	±(0.1%+4)	±(0.1%+3)
Duty cycle	0.1%~99.9%	±(2%+5)	±(2%+5)	
Temperature (°C)	-40°C~1000°C	±(2%+4)		±(1%+10)
Temperature (°F)	-40°F~1832°F	±(2%+8)		±(1.5%+10)
Live wire test		√		
LED test			12V	
Audible/visual alarm	V/A/Cap/Diode	Live/hFE/NCV	LED/hFE/NCV	√
Transistor hFE		√	√	
Dual range NCV test		√	√	
Flashlight		√	√	
MAX/MIN				√
Peak Hold				√
LPF measurement				√
Category ratings	CAT II 1000V, CAT III 600V			