

UT593AU

MULTIFUNCTION RCD LOOP TESTER

Newly released in 2021, the UT593AU meets AS/NZS electrical standards.
Now Available at a great price.

- 2000 count LCD display with analogue bar
- 250V~1000V DC insulation resistance test
- 200mA earth-resistance continuity test
- Loop impedance/Prospective Fault Current (PFC)/Prospective Short Current (PSC) test
- Lock test
- CATIII 300V
- RCD trip time test and the data storage with one key
- Full/Half wave and count downing (30s) test mode selectable
- 0°/180° phase angle option to detect the fastest trigger time
- Trip current test of RCD trip time X1/2, X1, X5
- RCD trip trigger current test
- Phase sequence and missing test
- AC/DC voltage auto-check and test
- Connection check with status real-time display
- White backlight; auto power off
- Heavy duty carry case
- 12-month warranty



UT593AU is a multifunction digital safety testing instrument, designed with a combination of large-scale integrated analog & digital circuits and the microprocessor chip. It measures RCD, line/loop impedance, continuity, insulation resistance, DC and AC voltage, phase sequence, featuring versatile functionality and high accuracy.



The instrument is widely used to measure RCD, insulation and earth connections on electrical equipment, and is an ideal tool for testing, inspection and maintenance.

Includes: 1 x Carry case, batteries, test leads (red x1, green x1, black x1), special power test lead, remote-control test lead and 12-month warranty.



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MULTIFUNCTION RCD LOOP TESTER SPECIFICATIONS

Specifications	Range		Best Accuracy	
Insulation resistance (Ω)	Output Voltage	250V/500V/1000V	±10%	
	250V	0.05MΩ ~ 250MΩ		
	500V	0.05MΩ ~ 500MΩ	±(5%+5)	
	1000V	0.05MΩ ~ 1000MΩ		
	Short-circuit current		<2mA	
Low-resistance continuity test	Range	0.00Ω ~ 199Ω	±(2%+5)	
	Test current	0.00 ~ 2Ω: >200mA	√	
Line impedance (Ω)	Range	0.01Ω ~ 2000Ω	±(5%+5)	
	Operating voltage (Frequency)	195V ~ 440V (45Hz ~ 65Hz)	√	
	Test current	20A	√	
	PFC test	0kA ~ 26kA	√	
Loop impedance (Ω)	Range	0.01Ω ~ 2000Ω	±(5%+5)	
	Operating voltage (Frequency)	195V ~ 253V (45Hz ~ 65Hz)	√	
	Test current	20A	√	
	PFC test	0kA ~ 26kA	√	
Non-trip loop impedance (Ω)	Range)	1.00Ω ~ 2000Ω	±(5%+5)	
	Operating voltage (Frequency)	195V ~ 253V (45Hz ~ 65Hz)	√	
	Test current	15mA	√	
	PFC test	0kA ~ 26kA	√	
RCD test	Operating voltage (Frequency)	195V ~ 253V (45Hz ~ 65Hz)	√	
	Test current	10mA/30mA/100mA/300mA/500mA	±10%	
	Trip time	×1/2 *I _{Δn} Range: 0ms ~ 2000ms		
		1 *I _{Δn} Range: 0ms ~ 300ms		±(5%+5)
		×1 *I _{Δn} Range: 0ms ~ 500ms (Select count down)		
×5 *I _{Δn} Range: 0ms ~ 40ms			±(5%+5)	
Phase sequence test	Operating voltage (Frequency)	100V ~ 440V (45Hz ~ 65Hz)	√	
	Display	Phase sequence: L1→ L2→ L3, forward rotation; L1→ L3→ L2 reverse	√	
Ramp RCD test	Test current	10mA/30mA/100mA/300mA/500mA	±10%	
AC voltage (V)	Range	0V ~ 440V	±(5%+2)	
	Frequency response	45Hz ~ 60Hz	√	
	Resolution	1V	√	