UT586+

Digital RCD(ELCB) Tester

The UT586+ is an instrument crafted for verifying the functionality of single-phase and three-phase electrical leakage protection devices. It is equipped with capabilities to measure fault triggering times and the currents that initiate tripping. Adhering to the CAT III 600V safety rating, it finds broad application across residential, educational, power, manufacturing, metallurgical, and chemical sectors.



RCD
3 phase RCD test

CAT III 600V
CAT III 600V

Dual display (mA+ms)

RAMP
Auto & Manual RAMP

L1 L2 L3
Line & phase voltage test

3-phase 4-wire RCD test



Three phase RCD test



AC voltage test



Triggle time & Triggle current test



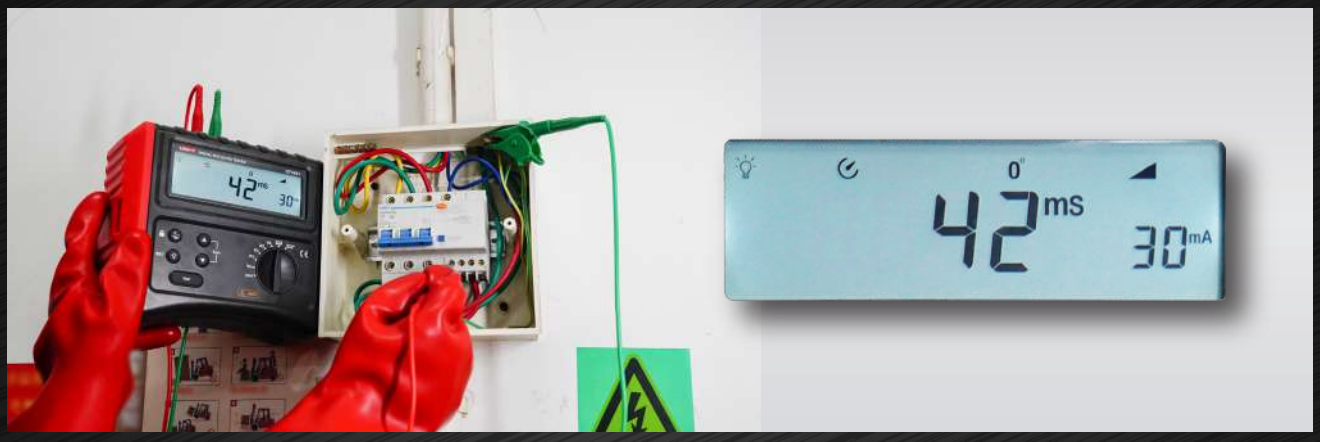
Removeable test lead, suitable for multiple application secenarios



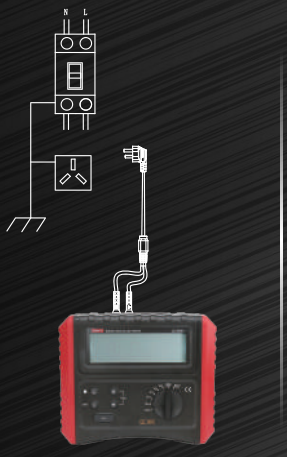




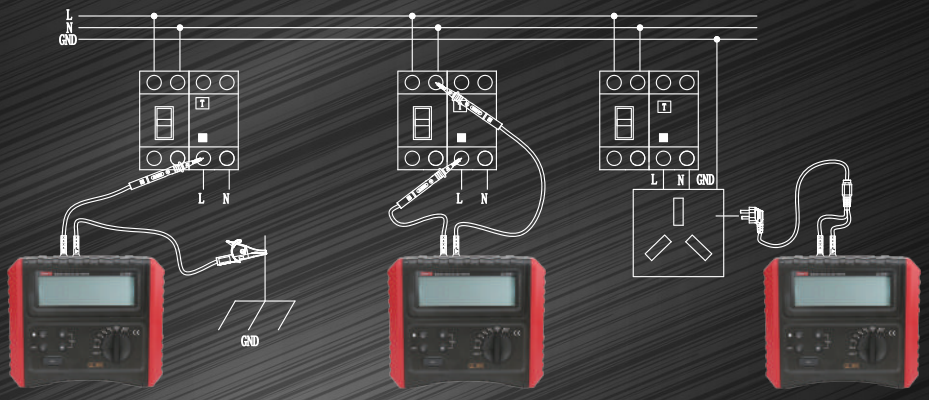
Dual display: mA+ms



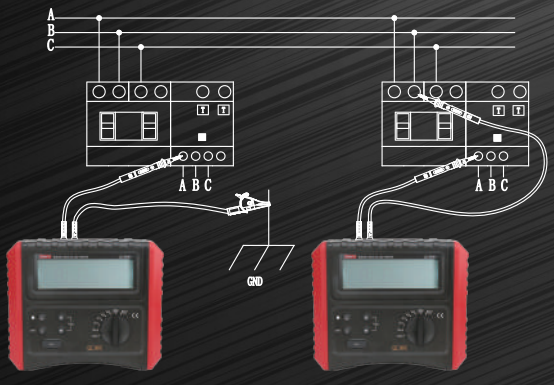
RCD tester connection methods



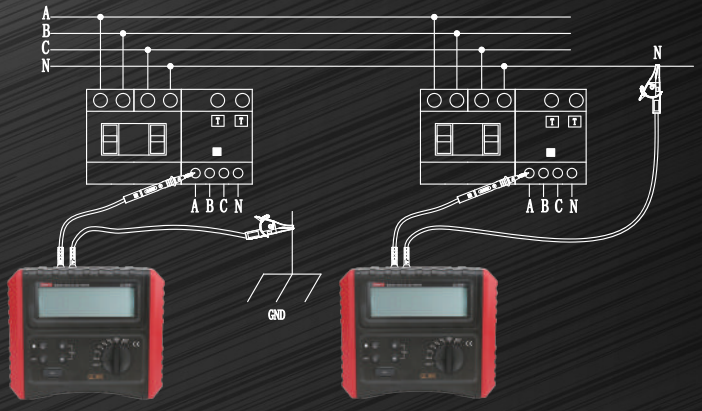
single phase socket RCD test



single phase 2-wire RCD test



3-phase 3-wire RCD test



3-phase 4-wire RCD test

Technical Specifications

Specification					
RCD test function	X1/2	10/20/30/100/300/500mA/1000mA	0~2000mS @ 0°/180°	-10%~0%"	±0.6%rdg±4dgt
	X1	10/20/30/100/300mA	0~2000mS @ 0°/180°	0%~+10%	±0.6%rdg±4dgt
		500mA/1000mA	0~200mS @ 0°/180°	0%~+10%	±0.6%rdg±4dgt
	X2	10/20/30/100/200/300/500mA	0~200mS @ 0°/180°	0%~+10%	±0.6%rdg±4dgt
	X5	10/20/30/100/200mA	0~200mS @ 0°/180°	0%~+10%	±0.6%rdg±4dgt
	AUTO	10/20/30/100/300/500mA/1000mA	300ms @ 15 0°/180°	-10%~+10%	±0.6%rdg±4dgt
	Manual	10/20/30/100/300/500mA/1000mA	300ms @ 0°/180°	-10%~+10%	±0.6%rdg±4dgt
Working voltage	50/60Hz	100V~440V (Note: If > 450V, it will issue an alarm and stop the RCD test)			-15%~+10%
Voltage test	Voltage range	30~480V (Resolution: 1V)		45~65Hz	±3%rdg±3dgt
Voltage test	L-PE	yes, display the L-PE input voltage; range: 30V~480V; No input and low voltage: "0V"; if less than 30V: <30V; if more than 4800v: >480V			
	Frequency	yes, display the L-PE input frequency; when it is "volts", press "VOLT/FREQ" key to switch "Voltage/Frequency"			
Wiring check		If there is no wiring, an abnormal power supply, or no electricity flowing, the LCD will display "L-PE" and flash.			
Phase angle selection		You can choose to initiate the test from the positive (0°) or the negative (180°) half-cycle. Press the "0°/180°" button to toggle phase.			
Lock test		With the power disconnected, press and hold the "0°/180°" button to activate the lock test function. Simply connect the test leads correctly to the test points, and the test will run automatically.			
AUTO RAMP test		You can test the trip action current and action time simultaneously.			
RCD test exceeds limit prompt		When the trip action time exceeds the maximum test duration and trips.			
Over-temperature detection		If the internal components of the device become too hot, the LCD will display an over-temperature symbol, and the device will automatically disable RCD testing.			
Backlight		Yes, can be turn on/off			
Low battery indication		Yes			
Auto powwer off		After 5 minutes of no operation, it will automatically shut down.			
Working environment		0°C~40°C			
Storage environment		-20°C~70°C			
Power		8 x 1.5V AA			
Polution level		2			
Safety rating		IEC61010-031; IEC61557-1,6; CAT III 600V			
Characteristics					
Product color		Red + gray			
Product weight		725g			
Product dimension		161 x 117 x 68mm			
Standard accessories		User manual 1pcs; Test lead 1 set (red/green); Alligator clips 2pcs (red/green); Test probe 2pcs (red/green); 1.5V AA x 8pcs; Test lead to EU plug 1pcs			
Standard package		Carton box: 4pcs			
Package dimension		585 x 380 x 335mm			

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