

# UNI-T®

## 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



Line & phase  
voltage test

 3-phase 4-wire RCD test



 Three phase RCD test



 AC voltage test



 Trigggle time & Trigggle current test



 Removeable test lead, suitable for multiple application scenarios



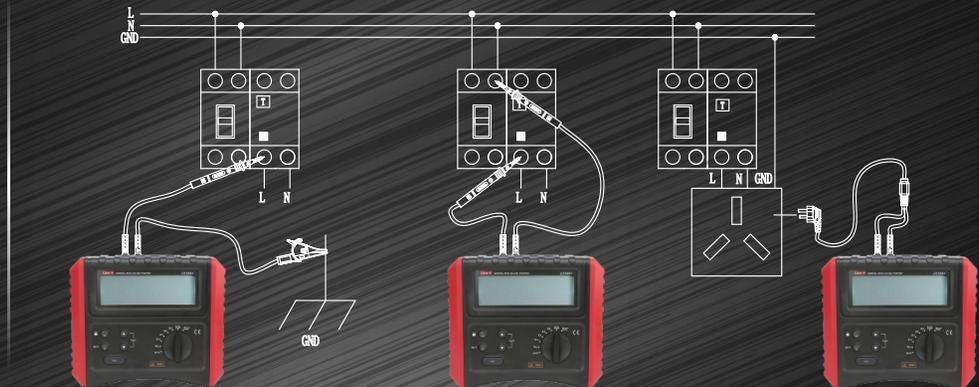
## Dual display: mA+ms



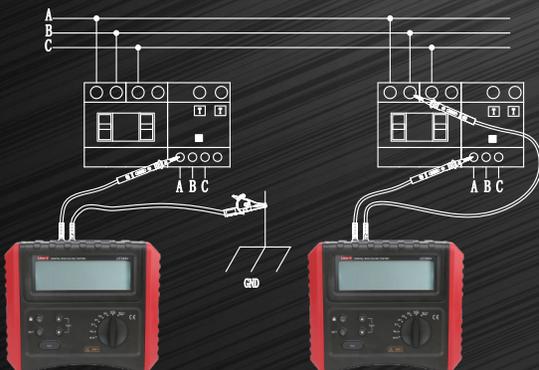
## RCD tester connection methods



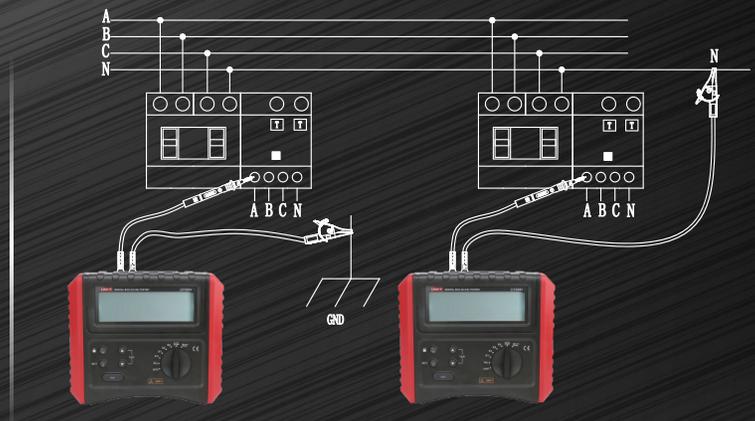
single phase socket RCD test



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 480V: >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 power 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				

**UNI-TREND**  
**TECHNOLOGY**



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