

## UT512D/UT512E

## 2.5kV Insulation Resistance Testers

UT512D/UT512E is digital high-voltage insulation resistance tester, designed with multiple ranges including 250V, 500V, 1000V, 2500V. It is an ideal measurement meter for electric power, telecommunication, meteorology, machine room, oil field, electromechanical installation and maintenance, and power supply department of Industry and mining enterprise.

## **Main features:**

- Output voltage range: Up to 2.5KV
- •PI/DAR measurement
- Short circuit current measurement
- Automatic leakage current display
- •Stepping voltage: 10% of the range
- High voltage alarm
- Automatic discharge
- •Data storage: 999 set
- PC software analysis: via USB cable
- Overvoltage category: CAT IV 600V





UT512D



**UT512E** 



Comparison function



Anti-Misplug (UT512E only)



Auto discharge



PC software analysis



Lithium battery (UT512E only)

## | Technical Specifications

Rated voltage	UT512D	UT512E	Accuracy
	<0.25ΜΩ	<0.25MΩ	reference only
	0.25ΜΩ~4.99GΩ	0.25ΜΩ~4.99GΩ	±(5%+5)
250V	5.00GΩ~24.9GΩ	5.00GΩ~49.9GΩ	±(20%+10)
	25.0GΩ~100GΩ	50.0GΩ~250GΩ	reference only
500V	<0.50ΜΩ	<0.50MO	reference only
	0.50ΜΩ~9.99GΩ	0.50ΜΩ~9.99GΩ	±(5%+5)
	10.0GΩ~49.9GΩ	10.0GΩ~99.9GΩ	±(20%+10)
	50.0GΩ~200GΩ	100GΩ~500GΩ	reference only
1000V	<1.00ΜΩ	<1.00ΜΩ	reference only
	1.00MΩ~19.9GΩ	1.00ΜΩ~19.9GΩ	±(5%+5)
	20.0GΩ~99.9GΩ	20.0GΩ~199GΩ	±(20%+10)
	100GΩ~400GΩ	200GΩ~1.00TΩ	reference only
2500V	<2.50ΜΩ	<2.50MΩ	reference only
	2.50MΩ~49.9GΩ	2.50ΜΩ~49.9GΩ	±(5%+5)
	50.0GΩ~249GΩ	50.0GΩ~499GΩ	±(20%+10)
	250GΩ~1.00TΩ	500GΩ~2.50TΩ	reference only
Capacitance test	NA	0.01uF~2.0uF	±(15%+3)
Low resistor test	NA	0.1Ω~600Ω	±(2%+10)
Output voltage (Rating)	stepping voltage range	0.211	Step by 10% of each range each time,
250V	350V, 275V, 300V		and adjust the voltage range to
500V	300V, 350V, 400V, 450V, 500V, 550V, 600V		50%~120% of each range;
1000V			Display accuracy: ±(10% read+10V)
2500V	1250V, 1500V, 1750V, 2000V, 1250V, 2500V		Output accuracy: ±(0%~20%)
DC voltage	30~1000VDC ±(3%+5)		
AC voltage	30~750VAC 50Hz/60Hz		±(3%+5)
Current	0.01nA~3.5mA	0.01nA~5mA	±(37013)
Short-circuit current	about 3.5mA	about 5mA	
Features	about 3.5111/1	about 5111/1	
Pl test	automatic display		
i i test	automatic display		
DAR test	automatic display		
DAR test	automatic display		
DAR test Timing measurement	automatic display  V  Monitor the voltage of me		harge state after testing. If voltage is the tester and the operator
DAR test Timing measurement Resistance comparison	automatic display  V  Monitor the voltage of me higher than 36V, it is forbic Record testing time autom	Iden to test for protecting that ically.	
DAR test Timing measurement Resistance comparison Monitoring function Timer testing	automatic display  V  Monitor the voltage of me higher than 36V, it is forbic	Iden to test for protecting that ically.	
DAR test Timing measurement Resistance comparison Monitoring function	automatic display  V  Monitor the voltage of me higher than 36V, it is forbic Record testing time autom Timing range: 0s~99m and 999 sets	Iden to test for protecting that ically.  59s	
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