

UT505 SERIES HANDHELD INSULATION RESISTANCE TESTERS



UT505 series handheld true RMS insulation resistance testers combine features of a digital multimeter and insulation resistance tester. Aside from the typical multimeter functions, these meters can also measure insulation resistance, PI, DAR, and automatically calculate resistance ratio to determine the insulation status.

UT505 can be used in insulation resistance testing of precision tools, including motors, cables, transformers, switches, electrical appliances, and insulated materials.

		Range	UT505A	UT505B
Insulation resistance (Ω)	50V	50V/100V/250V/500V/1000V	0%~10%	0%~20%
		0.01MΩ~50MΩ	±(3%+5)	±(3%+3)
		50MΩ~1GΩ		±(3%+3)
	100V	1GΩ~10GΩ		±(10%+3)
		0.01MΩ~100MΩ	±(3%+5)	±(3%+3)
		100MΩ~1GΩ		±(3%+3)
	250V	1GΩ~20GΩ		±(10%+3)
		0.01MΩ~200MΩ	±(1.5%+5)	±(1.5%+5)
		200MΩ~1GΩ		±(1.5%+5)
	500V	1GΩ~50GΩ		±(10%+3)
		0.01MΩ~500MΩ	±(1.5%+5)	±(1.5%+5)
		500MΩ~1GΩ		±(1.5%+5)
	1000V	1GΩ~100GΩ		±(10%+3)
		0.1MΩ~2000MΩ	±(1.5%+5)	±(1.5%+5)
		2GΩ~9.9GΩ	±(10%+3)	±(5%+3)
		10GΩ~20GΩ	±(20%+10)	±(7%+3)
		20GΩ~200GΩ		±(20%+3)
	Load current	50V (R=50kΩ) 1mA	0%~10%	0%~10%
100V (R=100kΩ) 1mA		0%~10%	0%~10%	
250V (R=250kΩ) 1mA		0%~10%	0%~10%	
500V (R=500kΩ) 1mA		0%~10%	0%~10%	
1000V (R=1MΩ) 1mA		0%~10%	0%~10%	
	Short circuit current		<2mA	<2mA
Leakage current (A)	10~2000μA			±(10%+3)
Low resistance (Ω)	0.01Ω~20kΩ (about 5V/>200mA)		±(1.5%+3)	
	0.01Ω~100Ω (about 5V/>200mA/20mA optional)			±(1.5%+3)
General resistance (Ω)	0.01kΩ~10MΩ			±(3%+3)
DC voltage (V)	0V~600V		±(2%+3)	±(2%+3)
AC voltage (V)	0V~600V		±(2%+3)	±(1.5%+5)
Frequency (Hz)	45~1kHz			±(0.1%+3)
Capacitance (F)	100pF~500μF			±(5%+5)
Display count			6000	6000
Features				
Step voltage			√	√
Auto power off			√	√
Auto range			√	√
LCD backlight			√	√
Data hold			√	√
Low battery indication			√	√
Compliance standard	IEC 61557; 61557-1:2007; 61557-2:2007; 61557-4:2007			
Power	1.5V battery (LR6) x 6			
Display	78mm x 59mm			
Product color	Red and grey			
Product net weight	630g			
Product size	103mm x 225mm x 59mm			
Std. accessories	Batteries, test leads, test probes, alligator clips			
Std. individual packing	Carrying bag, gift box, English manual			
Std. quantity per carton	5pcs			
Std. carton measurement	325mm x 320mm x 205mm			
Std. carton gross weight	UT505A: 5.5kg; UT505B: 6.3kg			
Optional accessory	Remote test lead			



● UT505A

- Analog bar graph
- True RMS
- DAR/PI/Timing measurement
- Comparison measurement
- Auto fuse check (UT505B)
- High voltage output alarm
- Auto discharge
- Continuity buzzer
- 99-group data storage