



UT505B Handheld Insulation Resistance Tester

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.

Applications:

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

Specifications		Range	UT505B
Insulation resistance (Ω)	50V	50V/100V/250V/500V/1000V	0%~20%
		0.01MΩ~50MΩ	±(3%+3)
		50MΩ~1GΩ	±(3%+3)
	100V	1GΩ~10GΩ	±(10%+3)
		0.01MΩ~100MΩ	±(3%+3)
		100MΩ~1GΩ	±(3%+3)
	250V	1GΩ~20GΩ	±(10%+3)
		0.01MΩ~200MΩ	±(1.5%+5)
		200MΩ~1GΩ	±(1.5%+5)
	500V	1GΩ~50GΩ	±(10%+3)
		0.01MΩ~500MΩ	±(1.5%+5)
		500MΩ~1GΩ	±(1.5%+5)
	1000V	1GΩ~100GΩ	±(10%+3)
		0.1MΩ~2000MΩ	±(1.5%+5)
		2GΩ~9.9GΩ	±(5%+3)
		10GΩ~20GΩ	±(7%+3)
		20GΩ~200GΩ	±(20%+3)
	Load current	50V (R=50kΩ) 1mA	0%~10%
		100V (R=100kΩ) 1mA	0%~10%
		250V (R=250kΩ) 1mA	0%~10%
		500V (R=500kΩ) 1mA	0%~10%
		1000V (R=1MΩ) 1mA	0%~10%
	Short circuit current		<2mA

Leakage current (A)	10~2000 μ A	$\pm(10\%+3)$
Low resistance (Ω)	0.01 Ω ~100 Ω (about 5V/>200mA/20mA optional)	$\pm(1.5\%+3)$
General resistance (Ω)	0.01k Ω ~10M Ω	$\pm(3\%+3)$
DC voltage (V)	0V~600V	$\pm(2\%+3)$
AC voltage (V)	0V~600V	$\pm(1.5\%+5)$
Frequency (Hz)	45~1kHz	$\pm(0.1\%+3)$
Capacitance (F)	100pF~500 μ F	$\pm(5\%+5)$
Features		
Display count		6000
Auto range/True RMS		\checkmark
Step voltage	10% steps at 50%~120% of range	\checkmark
DAR	60s/15s and 60s/30s	\checkmark
PI/Timing measurement		\checkmark
Auto discharge		\checkmark
Auto fuse check		\checkmark
Analog bar graph		\checkmark
Continuity buzzer		\checkmark
Comparison measurement		\checkmark
Low battery indication		\checkmark
General Characteristics		
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	
Standard accessories	Batteries, test leads, test probes, alligator clips	
Standard individual packing	Carrying bag, gift box, English manual	
Standard quantity per carton	20pcs	
Standard carton measurement	515mm x 380mm x 385mm (0.075 CBM per standard carton)	
Standard carton gross weight	20.8kg	
Optional accessory	Remote test lead	