

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 and DAR to determine the insulation status. UT505 can be used in insulation resistance testing of precision tools, motors, cables, transformers, switches, electrical appliances, and insulated materials.

Specifications	Insulation resistance ( $\Omega$ )	UT505A	UT505B
<b>Certificates</b>	<b>CE, UKCA</b>		
50V	0.01M $\Omega$ ~50M $\Omega$ 50M $\Omega$ ~1G $\Omega$	$\pm(3\%+5)$	$\pm(3\%+3)$ $\pm(3\%+3)$
100V	1G $\Omega$ ~10G $\Omega$ 0.01M $\Omega$ ~100M $\Omega$ 100M $\Omega$ ~1G $\Omega$	$\pm(3\%+5)$	$\pm(10\%+3)$ $\pm(3\%+3)$ $\pm(3\%+3)$
250V	1G $\Omega$ ~20G $\Omega$ 0.01M $\Omega$ ~200M $\Omega$ 200M $\Omega$ ~1G $\Omega$	$\pm(1.5\%+5)$	$\pm(10\%+3)$ $\pm(1.5\%+5)$ $\pm(1.5\%+5)$
500V	1G $\Omega$ ~50G $\Omega$ 0.01M $\Omega$ ~500M $\Omega$ 500M $\Omega$ ~1G $\Omega$	$\pm(1.5\%+5)$	$\pm(10\%+3)$ $\pm(1.5\%+5)$ $\pm(1.5\%+5)$
1000V	1G $\Omega$ ~100G $\Omega$ 0.1M $\Omega$ ~2000M $\Omega$ 2G $\Omega$ ~9.9G $\Omega$ 10G $\Omega$ ~20G $\Omega$ 20G $\Omega$ ~200G $\Omega$	$\pm(1.5\%+5)$ $\pm(10\%+3)$ $\pm(20\%+10)$	$\pm(10\%+3)$ $\pm(1.5\%+5)$ $\pm(5\%+3)$ $\pm(7\%+3)$ $\pm(20\%+3)$
Test voltage accuracy	50V/100V/250V/500V/1000V	0%~10%	0%~20%
Load current	1mA	0%~10%	0%~10%
Short circuit current		<2mA	<2mA
Leakage current (A)	10~2000 $\mu$ A		$\pm(10\%+3)$
Low resistance ( $\Omega$ )	0.01 $\Omega$ ~20k $\Omega$ (about 5V/>200mA) 0.01 $\Omega$ ~100 $\Omega$ (about 5V/>200mA/20mA optional)	$\pm(1.5\%+3)$	$\pm(1.5\%+3)$
General resistance ( $\Omega$ )	0.01k $\Omega$ ~10M $\Omega$		$\pm(3\%+3)$
DC voltage (V)	0V~600V	$\pm(2\%+3)$	$\pm(2\%+3)$
AC voltage (V)	0V~600V	$\pm(2\%+3)$	$\pm(1.5\%+5)$
Frequency (Hz)	45~1kHz		$\pm(0.1\%+3)$
Capacitance (F)	100pF~500 $\mu$ F		$\pm(5\%+5)$
Display count	6000		
Compliance standard	IEC 61557; 61557-1:2007; 61557-2:2007; 61557-4:2007		
Category ratings	CAT IV 600V		



UT505A

### Features

True RMS/analog bar graph	Continuity buzzer
DAR/PI timing measurement	99-group data storage
Comparison measurement	Step voltage
Auto fuse check (UT505B)	Auto range/auto power off
High voltage output alarm	LCD backlight/data hold
Auto discharge	Low battery indication

### Characteristics

Standard accessories	Batteries, test leads, test probes, alligator clips, English manual
Optional accessory	Remote test lead
Power	1.5V battery (LR6) x 6
Display	78 x 59mm
Product size	103 x 225 x 59mm
Product net weight	630g
Standard individual packing	Carrying bag, gift box
Standard quantity per carton	5pcs
Standard carton measurement	325 x 320 x 205mm
Standard carton gross weight	UT505A: 5.5kg; UT505B: 6.3kg