

# Insulation Resistance Testers



Models	UT505A	UT505B	UT501A	UT501B	UT501C	UT502A	UT502C
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Test voltage	1000V	1000V	1000V	1000V	1000V	2500V	2500V
Insulation resistance	20GΩ	200GΩ	5GΩ	5GΩ	5GΩ	20GΩ	20GΩ
Step voltage	50%-120% in range and 10% steps	50%-120% in range and 10% steps					
Short-circuit current	<2mA	<2mA	<2mA	<2mA	<2mA	<2mA	<2mA
Comparison function	●	●					
Polarization index (PI)	●	●		●		●	
Dielectric absorption ration (DAR)	●	●		●		●	
Secondary display for current		●					
Auto discharge	●	●	●	●	●	●	●
Low resistance (Continuity)	20kΩ	10MΩ		200Ω		200Ω	
True RMS	●	●					
Auto range	●	●	●	●	●	●	●
DC voltage	600V	600V					
AC voltage	600V	600V	750V	750V	750V	750V	750V
Resistance		10MΩ					
Capacitance		500μF					
Frequency		1kHz					
Data storage	99	99					
High voltage prompt	●	●	●	●	●	●	●
LCD backlight	●	●	●	●	●	●	●
Analog bar	●	●					
Low battery indication	●	●	●	●	●	●	●
Overload prompt	●	●	●	●	●	●	●
Light alarm	●	●	●	●	●	●	●
Buzzer alarm	●	●	●	●	●	●	●
Auto power off	●	●	●	●	●	●	●
Timing measurement	●	●					●
Meets IEC 61557	61557-1:2007, 61557-2:2007, 61557-4:2007	61557-1:2007, 61557-2:2007, 61557-4:2007	61557-1:2007, 61557-2:2007	61557-1:2007, 61557-2:2007, 61557-4:2007		61557-1:2007, 61557-2:2007, 61557-4:2007	
Category ratings	CAT IV 600V	CAT IV 600V	CAT III 600V	CAT III 600V	CAT II 1000V / CAT III 600V	CAT III 600V	CAT II 1000V / CAT III 600V
Certificates	CE/UKCA/cETLus	CE/UKCA/cETLus	CE/UKCA	CE/UKCA		CE/UKCA	

# UT500 Series

Insulation Resistance Testers

**UNI-T**®



UT502A

Test Voltage	Insulation resistance ( $\Omega$ )	UT501A	UT501B	UT502A
<b>Certificates</b>	<b>CE, UKCA</b>			
100V	0M $\Omega$ ~100M $\Omega$	$\pm(3\%+5)$		
250V	0M $\Omega$ ~99.9M $\Omega$	$\pm(3\%+5)$	$\pm(3\%+5)$	
	100M $\Omega$ ~5G $\Omega$	$\pm(5\%+5)$	$\pm(5\%+5)$	
500V	0M $\Omega$ ~99.9M $\Omega$	$\pm(3\%+5)$	$\pm(3\%+5)$	$\pm(3\%+5)$
	100M $\Omega$ ~5G $\Omega$	$\pm(5\%+5)$	$\pm(5\%+5)$	$\pm(5\%+5)$
1000V	0M $\Omega$ ~99.9M $\Omega$	$\pm(3\%+5)$	$\pm(3\%+5)$	$\pm(3\%+5)$
	100M $\Omega$ ~5G $\Omega$	$\pm(5\%+5)$	$\pm(5\%+5)$	$\pm(5\%+5)$
2500V	0M $\Omega$ ~99.9M $\Omega$			$\pm(3\%+5)$
	100M $\Omega$ ~9.9G $\Omega$			$\pm(5\%+5)$
	10G $\Omega$ ~20G $\Omega$			$\pm(10\%+5)$
Test voltage accuracy	100V/250V/500V/1000V	0%~10%	0%~10%	0%~10%
Short-circuit current		<2mA	<2mA	<2mA
AC voltage (V)	30V~750V	$\pm(2\%+3)$	$\pm(2\%+3)$	$\pm(2\%+3)$
Display count		2000	2000	2000
DAR	60s/15s and 60s/30s		$\checkmark$	$\checkmark$
PI			$\checkmark$	$\checkmark$
Meets IEC 61557	61557-1:2007; 61557-2:2007; 61557-4:2007 (UT502A only)			
Category ratings	CAT III 600V			

## Features

Auto range	High voltage indication
Low battery indication	Over load indication
LCD backlight	Auto discharge
Light alarm	Test voltage secondary display
Buzzer alarm	10M $\Omega$ internal resistance test

## Characteristics

Standard accessories	Batteries, test leads, alligator clips, elastic strap, test probes (UT502A), English manual
Power	1.5V battery (LR6) x 6
Display	70.6 x 34mm
Product size	150 x 100 x 71mm
Product net weight	500g
Standard individual packing	Gift box, carrying bag
Standard quantity per carton	20pcs
Standard carton measurement	500 x 380 x 330mm
Standard carton gross weight	UT501A: 17.7kg; UT501B: 20.9kg; UT502A: 18.9kg