

Insulation Resistance Testers



Models	UT505A	UT505B	UT501A	UT501B	UT501C	UT502A	UT502C
Page	149	149	148	148	146	148	146
							
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 (Ω)	UT501A	UT501B	UT502A
Certificates	CE, UKCA			
100V	0MΩ~100MΩ	±(3%+5)		
250V	0MΩ~99.9MΩ	±(3%+5)	±(3%+5)	
	100MΩ~5GΩ	±(5%+5)	±(5%+5)	
500V	0MΩ~99.9MΩ	±(3%+5)	±(3%+5)	±(3%+5)
	100MΩ~5GΩ	±(5%+5)	±(5%+5)	±(5%+5)
1000V	0MΩ~99.9MΩ	±(3%+5)	±(3%+5)	±(3%+5)
	100MΩ~5GΩ	±(5%+5)	±(5%+5)	±(5%+5)
2500V	0MΩ~99.9MΩ			±(3%+5)
	100MΩ~9.9GΩ			±(5%+5)
	10GΩ~20GΩ			±(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	±(2%+3)	±(2%+3)	±(2%+3)
Display count		2000	2000	2000
DAR	60s/15s and 60s/30s		√	√
PI			√	√
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	10MΩ 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