(INSTRUCTION MANUAL)
DIGITAL INSULATION & MEGOHMMETER TESTER

1. GENERAL

This instrument adopts the DC Voltage convertor of low consumption and high converter ratio inductance energy storage, to change the 9V Voltage to 250V/500V/1000V (UST-913B) , 2500V/5000V (UST-914B) DC Voltage. It uses digital bridge to make the insulation resistance measurement had the features of user-friendly, high extent range, backlight display, data hold and auto power off. The whole instrument is stylish and superior grade in appearance and high stable in performance, it can be operated by both hands through using a shoulder strap. It is most suitable for the needs of insulation resistance check, such as electric, cable, electrical and mechanical equipment, telecommunication equipment and electrical facilities.

2. General Property

(1) Display:82×44mm LCD display, max.“1999”.
(2) Over range indicator:display“1”.
(3) Power:5# battery LR6 (1.5V) ×6 (or external AC adaptor), no battery indicator.Auto power off (approx. 15miutes after turning on
(4) Power consumption:consumption is less than 300mw at unload measurement.
(5) Operation environment:Temperature 0°C—40°C. Relative humidity 30%RH—85RH.
(6) Dimension:175(L) ×110(W) ×70(D) mm.

3. Main Features:

Large LCD 2000 counts display, easy to read.
Test voltage for your choice:UST-913B : 250V / 500V / 1000V.
UST-914B: 2500V/5000V
Reliable insulation resistance tester with stable performance.
Locking function of test button, wide measurement range, convenient to use.
Perfect overload protection, widely used for insulation resistance check, such as electric, cable, electrical and mechanical equipment, telecommunication equipment and electrical facilities.

1.Voltage selection switch (AC750V/500V/250V/1000V)
2.Terminal of AC adaptor
3.Power switch: auto-lock power switch (POWER)
4.Resistance Range selection switch (RANGE)
5.Measuring Range selection switch (RANGE)
6.LCD display: Display the measured data and units
7.L:Terminal for connecting the measured circuit.
8.G: Terminal for protection,connect the eletrode with of protection loop to “G” terminal when the measured object is required to add the protection loop to eliminate the leaking effect.
9.ACV: Input terminal of AC Voltage measurement.
10.E: Terminal for connecting the ground of the measured object.

Techincal Data:

Basic Function	Range	Basic Accuracy	
		UST-913B	UST-914B
Measuring voltage	1000V/2500V		
	2500V/5000V		±10%
	250V/500V/1000V	±10%	
Current of short circuit	250V(R=250kΩ） 1mA	±10%	
	500V(R=500kΩ） 1mA		
	1000V(R=1MΩ） 1mA		
Median resistance	＜4mA		√
	＜1.8mA	√	
Median voltage 1000V	200MΩ： 6.0~199.9MΩ		
	2GΩ： 0.06~1.999GΩ		
	20GΩ： 0.6~19.99GΩ		
Voltage test 2500V	200MΩ： 5.0~199.9MΩ		
	2GΩ： 0.05~1.999GΩ		±(5%±bit)
	20GΩ： 0.5~19.99GΩ		±(5%±bit)
	20GΩ： 5.0~199.9GΩ		±(5%±bit)
Jack position 5000V	2GΩ： 0.05~1.999GΩ		±(5%±bit)
	20GΩ： 0.5~19.99GΩ		±(5%±bit)
	20GΩ： 5.0~199.9GΩ		±(5%±bit)
Range Insulation Resistance	250V：0.1MΩ~20MΩ	±(4%reading ±2bit)	
	500V：0.1MΩ~50MΩ		
	1000V：0.1MΩ~100MΩ		
	250V：20MΩ~500MΩ	±(1%reading ±6bit)	
	500V：50MΩ~1000MΩ		
	1000V：100MΩ~2000MΩ		
Measuring Voltage	AC 750V		±(1%±6bit)
Jack position	Insulation resistance: L、E AC750V: ACV G		