DIGITAL MEGOHMMETER INSTRUMENT OPERATION MANUAL

1. INTRODUCTION

A60B series digital megohmmeter instrument uses lower power consumption whigh change rate inductance energy-DCV converter, change 9V-volt to DC250V/500V/1000V; Also, uses digit-bridge resistance measurement for measuring electric insulation resistance. Features include:

- ♦ Easy and correct readout.
- ♦ Wide measurement range
- ♦ High stability and reliability
- LCD display for low power consumption and clear readout
- Light-weight and compact construction for easy operation.
- ♦ Auto power off and asleep mode
 It is suitable for elevator \(\) machine equipment \(\) telecommunications system check work.

2. FRONT PANEL DESCRIPTION

- 1. LCD: display measurement data and "M Ω "
- 2. High voltage indication: LED display
- RANGE Switch
- Power OFF
- 5. G: shield input jack terminal
- 6. L: Connect test circuit input jack terminal
- 7. Test key (PUSH): self return
- 8.9. E2/E1: connect to GND of test object input jack terminal

3. SPECIFICATIONS

3-1. GENERAL SPECIFICATIONS

- Display : 60x30mm large window LCD with max. reading of 1999.
- Over range indication: only the MSD "1" display.
- Power supply: Single, standard 9 volt battery, NEDA 1604IEC6F22
- Power Consumption: unload consumption is less than 300mW.
- Operation environment: Temperature 0°C~40°C; humidity 30%RH~85%RH.
- 6. Dimension: 80mm(W) x 185mm (L) x45mm (H)
- 7. Weight: approx. 360g (including 9V battery)

3-2. ELECTRICAL SPECIFICATIONS

A60B TYPE

Test	voltage	100V±10%	250V±10%	500V±10%	1000V±15%
Range	200ΜΩ	0.1ΜΩ-20ΜΩ	0.1ΜΩ-20ΜΩ	0.1ΜΩ-50ΜΩ	0.1ΜΩ-100ΜΩ
	2000ΜΩ	10ΜΩ-500ΜΩ	20ΜΩ-500ΜΩ	50ΜΩ-1000ΜΩ	100ΜΩ-2000ΜΩ
Accuracy		±(4% of reading+2d)	±(3% of reading+2d)		
Shor	t current	0.9mA	1.4mA	1.4mA	1.4mA
Median resistance		2ΜΩ	2ΜΩ	2ΜΩ	5ΜΩ
Jack position		L,E2	L,E2	L,E2	L,E1

Note: Median resistance ensures that two terminal voltage is not less than 90% of test voltage of low terminal limit value of measure resistance.

4.OPERATION

- Press down the "POWER" key.
- To select test voltage (1000V, 500V, 250V) according to need.
- 3. To select rang switch according to need.
- 4. Connect test object electrode to input jack terminal

- correspondingly.
- When measuring cable, connect protection circle to "G" jack.
- Press down the "PUSH" switch until display value stability and reading, then release "PUSH".
- Connect input line "E1 or E2" to test object GND terminal, connect L to test circuit terminal; and asks the "L" connect line to hang in the air.
- If only the figure"1" is displayed, over range is be indicated and the FUNCTION switch must be set to a higher range. When function key is "Down" position, express insulation resistance exceed 2000MΩ.

5.WARNING

- When test voltage select key is not pressed down, it is possible to appear high voltage on output voltage jack.
- When measuring, firstly, check test voltage select and test voltage remind on LCD are not same with need voltage.
- To ensure operation safety, test object must be removed from electrified wire netting and short circuit for fully discharge.
- To ensure reading is accurate, don't contact test terminal during measuring.
- Keep instrument from high temperature position, avoid sunlight to affect LCD life.
- 6. It is necessary to replace battery when a " -+ " symbol appears on the LCD display. If store for a long time, the battery should be taken out.
- When unload, readings are displayed. This is normal and it doesn't affect measure.

- During "MΩ" measuring, it is possible that environment interference or insulation material cause reading unstable. So user may connect "G" terminal to test object shield terminal to reading.
- To ensure safety and decrease interference, uses SI
 rubber material measurement line and don't
 replace it as one likes.

6. ACCESSORIES

- 1. Measurement cable with clip 1 pair
- 2. 9V multi-layer battery 1 pcs
- 3. Introduction manual 1 pcs

