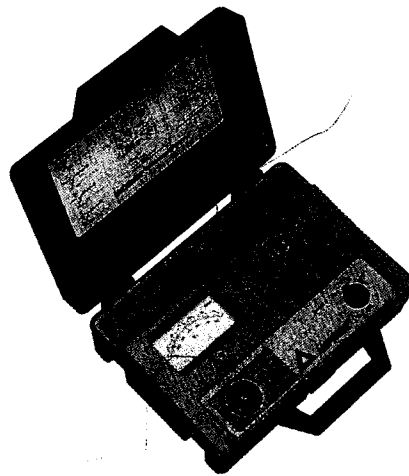


Part No. 947770  
6/95

# **INSULATION RESISTANCE TESTER**



**Model AMB-5KV**

** **AMPROBE®****

## TECHNICAL SPECIFICATIONS

### INSULATION RESISTANCE

Measuring range: 500k through 500G  
Test voltages: 500, 1000, 2500, 5000 VDC  
Max. short circuit measuring current: approx. 1.3mA  
Scale: Logarithmic, L=90mm  
Accuracy: +/- 2 mm  
**TEST HOLD** system: included  
Discharging of line: Automatic, when "INSULATION TEST" push button is NOT pushed.

### VOLTAGE

Measuring range: 0 - 600 Vac/dc  
Input resistance (DC voltage): 3 M ohm  
Input resistance (AC voltage): 1.35 M ohm  
Scale: linear, L=90mm  
Accuracy: +/- 2% of full scale

### GENERAL

Power supply: 4 "D" size alkaline (IEC R20's) batteries  
LOW BAT indicator: Red LED  
Dimensions (WxHxL): 345mm(13.6")x 130mm(5.1")x 250mm (9.8")  
Case: Robust, plastic with carrying handle  
Working temperature range: 0-40°C (32°F to 104°F)  
Weight: 4.5Kg (9.9lb)

### OVERLOAD PROTECTION:

#### VOLTAGE INPUT:

1000 VOLTS AC or DC (Remove Test Leads from Voltage source as soon as possible).

### INSULATION RESISTANCE

#### INPUT:

600 VOLTS AC. ("Insulation Test" push button depressed, Instrument connected to a Voltage source).

## MAINTENANCE AND CARE OF INSTRUMENT

### BATTERIES:

If the red light next to the "Insulation Test" push button comes on (during an Insulation Resistance measurement), the batteries must be replaced. Weak batteries will affect measurement accuracy. When replacing batteries, use four "D" size alkalines (IEC-R20). Always replace all four batteries at the same time.

If the AMB-5KV is not going to be used for an extended period of time, remove the batteries to prevent possible damage from battery leakage.  
Battery removal and replacement:

- (1) Disconnect the AMB-5KV test leads from any DUT.
- (2) Remove battery cover by turning cover screw counter-clockwise.
- (3) Remove batteries
- (4) Install new batteries. (Observe polarity symbols on battery holder). NOTE: Do to tightness of battery holder, be sure batteries make contact with tabs on holder.
- (5) Replace battery cover and secure with its screw.

### METER:

Always check if the meter needle rests directly over the "0V" of the voltage scale. If it does not, using a small screwdriver, adjust needle screw until needle rests exactly over (splits) "0V".

Keep meter (and rest of front panel) clean by occasional wiping with a cloth dampened with a very mild detergent. dry immediately .

### TEST LEADS:

The AMB-5KV IS CAPABLE OF PRODUCING 5000 volts DC. It is essential that the test leads be checked BEFORE each use for worn or cracked insulation. Banana plugs and crocodile clips should be inspected for proper mechanical and electrical integrity. IF A PROBLEM IS FOUND, THE TEST LEAD SHOULD BE REPLACED!

**REPLACEMENT PARTS:**

TEST LEAD KIT.....ORDER MTL-5KVTL  
(Consists of ONE RED and TWO BLACK Lead assemblies)  
INSTRUCTION BOOK.....ORDER P/N 947770  
BATTERIES (Pkg. of 4).....ORDER MN-1300