



## OVERVIEW

The Metravi DIT-910 digital insulation tester adopts low-loss high ratio of inductance energy storage.

In-built DC voltage converter can change 12V voltage into 250V / 500V / 1000V DC voltage.

It uses digital LCR Bridge for resistance measurement and insulation resistance testing.

It comes with features such as LED indicator, wide measuring range, backlight display, test lock, auto power off (only for MAX DC1000V OUT function), etc.

It can also be used for electrical voltage measurement with great accuracy and stable performance. Functionally designed with straps, you can operate the instrument with both hands.

Ideal for application for motors, cables, mechanical and electrical equipment, telecommunications equipment, power facilities and other insulation resistance testing areas.

The instrument complies with IEC1010 (safety standard issues by the International Electro-technical Commission).

## GENERAL CHARACTERISTICS

<b>Display:</b>	90 × 48mm LCD display, the maximum display is "1999".
<b>Over range Indication:</b>	Only the highest digit shows "1" when the upper limit is exceeded.
<b>Measurement Method:</b>	Double integral type A / D conversion.
<b>Sampling Rate:</b>	About 3 times /second.
<b>Power Supply:</b>	Battery LR6 (1.5V) × 8 or DC 12V Power Adapter (NOT Included). Low Power Indication when the battery voltage is not enough. Automatic Shutdown function (only for MAX DC1000V OUT) about 15 minutes after machine start.

- Power Consumption:** Power consumption of empty load test <300mw.
- Using Environment:** Temperature 0°C -40°C, Humidity 30% RH-85% RH.
- Alarm Function:** The meter will sound an alarm automatically when the measured resistance is lower than the lower limit of measuring range, and the reading is invalid (for only for MAX DC 2500V OUT function).
- Dimensions:** 175(L) x 110(W) x 70(D)mm.
- Weight:** 750g (Battery included).
- Package Includes:** User Manual, Insulation Tester, Test Certificate, 1 pair 10A Testing Leads, 8 x LR6 Batteries, 1 pair Crocodile Clips, 1 set Silicon Test Leads.

**MAX DC1000V OUT Function Technology Parameters**

Basic functions		Measuring Range	Basic Accuracy
Output Voltage		250V / 500V / 1000V	±10%
Short Circuit Current		<1.6mA	
Test Current		250V (R=250kΩ) 1mA 500V (R=500kΩ) 1mA 1000V (R=1MΩ) 1mA	±10%
Range Insulation Resistance		250V : 0.1MΩ - 20MΩ 500V : 0.1MΩ - 50MΩ 1000V : 0.1MΩ - 100MΩ	±(4% readings ±2 unit)
		250V : 20MΩ - 500MΩ 500V : 50MΩ - 1000MΩ 1000V : 100MΩ - 2000MΩ	±(4% readings ±2 unit)
Short Circuit Current		<1.6mA	
Median Resistance		250V/500V : 2 MΩ 1000V : 5MΩ	
Voltage Measurement		AC750V	±(1% readings + 6 unit)
Hole Plug Position		Insulation Resistance: L.E AC750V : ACV G	

**AC750V Input Resistance : 1MΩ. AC750V, Frequency Response : (50~200) Hz**