



Product Kit



DIT 945PI



Introduction

MECO DIT 945PI is a 2.5KV Digital Insulation Tester with 4 Digit (2000 Counts) Large Screen LCD Display. It measures Insulation Resistance upto 200GΩ, Low Resistance upto 60Ω and AC Voltage upto 600VAC. It has Special functions to Measure P.I. (Polarization Index) and D.A.R. (Dielectric Absorption Ratio). It is ideally suited for testing of Insulation Resistance and Voltage of Transformers, Switches, High Voltage Systems, Generator, Cables, Appliances, Motors, Power Capacitors etc.

Features

- 4 Digit (2000 Counts) Large LCD Display with Backlight
- High Accuracy for Insulation Resistance, AC Voltage & Low Resistance Measurement
- Range Selection & Single Person Push Button Operation
- P.I. & D.A.R. Functions
- Measurement of Voltage upto 600V AC
- Low Resistance upto 60Ω
- Auto Range (Insulation Test)
- APO & Data Hold Functions
- ⚡ Sign for HV (High Voltage)
- Battery / 12V DC Operated
- As per Safety Standard IEC/EN 61010-1
- Category CAT II 1000V, CAT III 600V
- Over Range Alarm
- Shock, Dust & Moisture Resistant Casing
- Heavy Duty Rubber Holster

Electrical Specifications

Accuracy : $\pm(\% \text{ reading} + \text{digits})$ at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$; $\text{RH} \leq 75\%$

Specification	Test Voltage	Range	Resolution	Test Current	Accuracy
Insulation Test	250V ($\pm 10\%$)	0~20MΩ	0.01MΩ	2mA (Maximum)	$\pm(3\% + 5)$
		20~200MΩ	0.1MΩ		
	500V ($\pm 10\%$)	0~20MΩ	0.01MΩ		
		20~200MΩ	0.1MΩ		
		0.2G~2GΩ	0.001GΩ		
	1000V ($\pm 10\%$)	0~20MΩ	0.01MΩ		$\pm(5\% + 5)$
		20~200MΩ	0.1MΩ		$\pm(10\% + 5)$
		0.2G~2GΩ	0.001GΩ		$\pm(3\% + 5)$
		2G~20GΩ	0.01GΩ		$\pm(5\% + 5)$
	2500V ($\pm 10\%$)	0~20MΩ	0.01MΩ		$\pm(10\% + 5)$
		20~200MΩ	0.1MΩ		
		0.2G~2GΩ	0.001GΩ		
		2G~20GΩ	0.01GΩ		
		20G~200GΩ	0.1GΩ		
AC Voltage [40 ~ 60Hz]	-	600V	1V	-	$\pm(1.5\% + 5)$
Resistance	-	60Ω	0.01Ω	-	$\pm(1.2\% + 5)$

General Specifications

Display	4 Digit (2000 Counts) Large Screen LCD Display	Dimensions	179 x 133 x 70mm (approx.)
High Voltage Indication	✓	Weight	676gms including batteries (approx.)
Data Hold	✓	Standard Accessories	Test and Calibration Certificate, Insulation Resistance Measurement Test Leads x 1 Set, Pair of Alligator Clips, 1.5V AA Batteries x 8 pcs, Connector Cable for 12V DC x 1pc, Carrying Bag x 1 pc, Instruction Manual x 1 pc
Low Battery Indication	✓		
D.A.R. Function	✓		
P.I. Function	✓		
Operating Temperature	0°C to 40°C (RH \leq 80%)		
Storage Temperature	-10°C to 50°C (RH \leq 85%)		
Power	12V (Eight 1.5V "AA" Battery)		