



**Cambridge Instruments
& Engg. Co.**

EST. 1963 · HOWRAH, INDIA

DIGITAL INSULATION TESTER

DIT-2500

Insulation tester + True-RMS multimeter · DAR / PI · CAT III / CAT IV

01 KEY FEATURES

- True-RMS multimeter
- Built-in DAR & PI with selectable timer
- Live test-voltage display
- LED high-voltage output indicator
- Backlit LCD, data hold, auto power-off
- Rechargeable Li-ion batteries



DIT-2500 · INSULATION TESTER

02 TECHNICAL SPECIFICATIONS

PARAMETER		SPECIFICATION		
INSULATION RESISTANCE RANGE, BY TEST VOLTAGE				
100 V 0.1 MΩ – 2 GΩ	250 V 0.25 MΩ – 5 GΩ	500 V 0.5 MΩ – 10 GΩ	1000 V 1 MΩ – 20 GΩ	2500 V 2.5 MΩ – 50 GΩ
INSULATION TEST				
Accuracy	±(3%+5) to 399.9 MΩ · ±(5%+5) 0.4–2 GΩ · ±(10%+5) 2.001–50 GΩ			
Open-circuit voltage	90% – 110% of rated			
Short-circuit current	≥ 1 mA			
DAR	1 min : 15 s and 1 min : 30 s			
PI	10 min : 60 s			
MULTIMETER (TRUE-RMS)				
DC voltage	6 V – 600 V ±(0.5% + 5) · 1500 V ±(1% + 5)			
AC voltage	6 V – 600 V ±(1.2% + 5) · 1500 V ±(2% + 5), 40 Hz – 1 kHz			
Resistance	600 Ω – 60 MΩ			
Capacitance	10 nF – 100 mF			
Frequency	10 Hz – 20 kHz (ACV 1 – 600 V)			
Diode / continuity	Diode test · buzzer below approx. 50 Ω			
GENERAL				
Safety category	CAT III 1000 V / CAT IV 600 V			
Terminals	LINE, EARTH, GUARD (insulation) · VΩ, COM (multimeter)			
Battery	Li-ion 14500, 3.7 V × 2, rechargeable			
Operating temperature	0 – 40 °C, below 75% RH			
Dimensions (L × W × H)	189 × 89 × 55 mm			
Weight	Approx. 380 g (incl. battery)			
Warranty	12 months against manufacturing defects only			

03 APPLICATIONS

- Insulation resistance: motors, transformers, cables
- DAR / PI insulation quality assessment
- Switchgear, panel and cable commissioning

04 WHAT'S IN THE BOX

- ✓ Test leads
- ✓ Charging set
- ✓ Instruction manual

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All specifications are subject to change without prior notice. © Cambridge Instruments & Engg. Co. – DIT-2500 Product Catalogue.