FLUKE ®

Fluke 1535 and 1537

Insulation Resistance Meter

Features:

- Ultra–large LCD display
- Digitalised insulation test with analogue bar graph
- Preset test voltage: 250 V, 500 V, 1000 V, 2500 V
- Insulation measurement: 200 kΩ to 500 GΩ
- Polarity index (PI)
- Dielectric absorption ratio (DAR)
- Automatic power off after 10 minutes of inactivity

Unique features of Fluke 1537:

- ACV / DCV / resistance measurement
- Adjustable testing voltage: 250 V to 2500 V with step of 100 V
- Dielectric discharge (DD)
- Ramp mode to linearly increase test voltage (100 V/s)
- User definable tags, timed tests, and measurement results storage
- Breakdown voltage indicator
- Mini USB interface used to download measurement data
- PC software

Specifications

	Fluke 1535 & 1537 Insulation resistance meters						
Range	200 kΩ to 500kΩ	0.50 MΩ to 5.00 MΩ	5.0 MΩ to 50.0 MΩ	50 MΩ to 500 MΩ	0.5 GΩ to 5.00 GΩ	5.0 GΩ to 50.0 GΩ	50 GΩ to 500 GΩ
Resolution	1 kΩ	10 kΩ	100 kΩ	1 MΩ	10 MΩ	500 MΩ	5 GΩ
Accuracy	5 %	5 %	5 %	5 %	5 %	5 to 20%	20%
Leakage current measurement							
Range	1 nA to mA						
Accuracy	±(0% + 2 nA)						
Capacitance measurement							
Range	0.01 µ F to 2.00 µF						
Accuracy	±(15 % rdg + 0.03 µF)						
Test voltage for insulation resistance							
Range	250 V to 2500 V						
Accuracy	±(3 % + 3 V)						
Timer							
Range	0 to 99 min						
Resolution	Setting: 1 min Alert: 1 s						
Warning for energised circuit							
Warning range	>30 V						

* Shortage current   1535 > 2 mA   1537 > 5 mA

	ACV/DCV/resistance measurement (1537 only)		
VAC			
Range	0 V to 600.0 V		
Resolution	0.1 V		
Accuracy, ±(% rdg + digit)	±(2 % +10) (45 Hz to 500 Hz)		
VDC			
Range	0 V to 600.0 V		
Resolution	0.1 V		
Accuracy, ±(% rdg + digit)	±(2 % +10)		
Resistance			
Range	0 Ω to 600.0 Ω	600 Ω to 6000 Ω	6.00 Ω to 60.00 kΩ
Resolution	0.1 Ω	1 Ω	10 Ω
Accuracy, ±(% rdg + digit)	±(2 % +10)		

Model Comparison

	Fluke 1535	Fluke 1537
Basic insulation features		
Insulation test voltage (preset): 250V, 500V, 1000V, 2500V	●	●
Insulation test voltage trim	–	●
Step mode (100 V/s)	–	●
Insulation test: 200 kΩ to 500 GΩ	●	●
Shortage current	2 mA	5 mA
Auto-discharge of capacitive voltage	●	●
Advanced analysis of insulation performance		
Polarity index (PI)	●	●
Dielectric absorption ratio (DAR)	●	●
Dielectric discharge (DD)	–	●
Breakdown voltage indicator	–	●
Comparison of insulation test results	–	●
Timed test	–	●
Data Interface		
User definable tags	–	●
Measurement results storage	–	●
PC software and Mini USB interface	●	●
Automatically turns off after 10 minutes of inactivity	●	●
Multimeter		
AC voltage	–	●
DC voltage	–	●
Resistance	–	●
Continuity	–	●
Warranty		
Warranty	1 year	3 years

General Specifications

General Specifications	
Display	73.5 x 104 mm
Battery	8 AA alkaline cells, IEC LR6
Dimensions (H x W x L)	184 x 211 x 93 mm
Weight	1.3 kg
Temperature – Operating temperature	–10 ℃ to +50 ℃
Temperature – Storage temperature	–20 ℃ to +60 ℃
Operating humidity	Non-condensing (< 10 ℃) ≤80 % HR (10 ℃ to 30 ℃) ≤50 % HR (30 ℃ to 50 ℃)
Altitude – Operating altitude	2000 m
Altitude – Storage altitude	12,000 m
Overvoltage category	CAT IV 600 V
Safety – General	IEC 61010-1, pollution degree 2 IEC 61010-2-033: CAT IV 600 V IEC 61557-1
Safety – Insulation resistance measurement	IEC 61557-2
Safety – Effectiveness of protective measures	IEC 61557-16
Safety – IP Rating	IEC 60529: IP40
Electromagnetic compatibility (EMC)	IEC 61326-1: Electromagnetic environment for portable equipment IEC 61326-2-2 CISPR 11: Group 1, Class A

Order information

FLUKE 1535 2500V Insulation Tester
FLUKE 1537 2500V Advanced Insulation Tester

Including:
- Test lead set with alligator clips (red, black, green)
- Test probes (red, black)
- Soft carrying case

Accessories for Fluke 1537 only
- USB Cable
- PC software – downloadable

Visit www.fluke.com.au to get complete details on these products or ask your local Fluke sales representative.

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