

Insulation multimeters, two powerful tools in one	Fluke	
	1503	1507
Part No.	0727823	0727824
AC/DC Voltage Measurement		
Accuracy	Range: 600.0 V	
	Resolution: 0.1 V	
	50 Hz to 400 Hz ± (% of Rdg + Digits): ± (2 % + 3)	
Input impedance	3 MΩ (nominal), < 100 pF	
Common mode rejection ratio (1 kΩ unbalanced)	> 60 dB at dc, 50 or 60 Hz	
Overload protection	600 V rms or dc	
Earth bond resistance measurement		
Range/Resolution	20.00 Ω: 0.01 Ω	
	200.0 Ω: 0.1 Ω	
	2000 Ω: 1.0 Ω	
	20.00 kΩ 0.01 kΩ	
Accuracy	± (1.5 % + 3)	
Overload protection	2 V rms or dc	
Open circuit test voltage	> 4.0 V, < 8 V	
Short circuit current	> 200.0 mA	
Insulation specifications		
Measurement Range	0.01 MΩ to 2000 MΩ	0.01 MΩ to 10 GΩ
Test voltage	500 V, 1000 V	50 V, 100 V, 250 V, 500 V, 1000 V
Test voltage accuracy	+ 20 %, - 0 %	
Short circuit current	1 mA nominal	
Auto discharge	Discharge time < 0.5 second for C = 1 μF or less	
Live circuit indicator	Inhibit test if terminal voltage > 30 V prior to initialization of test	
Maximum capacitive load	Operable with up to 1 μF load	
Measure accuracy	50 V: ±(3 % + 5)	
	100 V: ±(3 % + 5)	
	250 V: ±(1.5 % + 5)	
	500 V: ±(1.5 % + 5)	
	1000 V: ±(1.5 % + 5) to 2000 MΩ, ±(10 % + 3) above 2000 MΩ	
General Specifications		
Maximum voltage applied to any terminal	600 V ac rms or dc	
Storage temperature	-40 °C to 60 °C (-40 °F to 140 °F)	
Operating temperature	-20 °C to 55 °C (-4 °F to 131 °F)	
Temperature coefficient	0.05 x (specified accuracy) per °C for temperatures < 18 °C or > 28 °C (< 64 °F or > 82 °F)	
Relative humidity	0 % to 95 % @ 10 °C to 30 °C (50 °F to 86 °F)	
	0 % to 75 % @ 30 °C to 40 °C (86 °F to 104 °F)	
	0 % to 40 % @ 40 °C to 55 °C (104 °F to 131 °F)	
Vibration	Random, 2 g, 5-500 Hz per MIL-PRF-28800F, Class 2 instrument	
Shock	1 meter drop per IEC 61010-1 2nd Edition	
Electromagnetic compatibility	In an RF field of 3 V/M, accuracy = specified accuracy (EN 61326-1:1997)	
Safety	Complies with ANSI/ISA 82.02.01 (61010-1) 2004, CAN/CSA-C22.2 NO. 61010-1-04, and IEC/EN 61010-1 2nd Edition for measurement CAT IV 600 V	
Certifications	CSA per standard CSA/CAN C22.2 No. 61010.1-04; TUV per standard IEC/EN 61010-1 2nd Edition	
Batteries	Four AA batteries (NEDA 15A or IEC LR6)	
Battery life	Insulation test use: Tester can perform at least 1000 insulation tests with fresh alkaline batteries at room temperature.	
	Resistance measurements: Tester can perform at least 2500 earth bond resistance measurements with fresh alkaline batteries at room temperature.	
Ingress protection rating	IP40	

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	1587
Part No.	0729500
Basic features	
True-rms readings	•
Auto power off	•
Measurements	
AC/DC voltage	50 V, 100 V, 250 V, 500 V, 1000 V
AC/DC current	400 mA
Insulation test	0.01 MΩ to 2.0 GΩ
Resistance	0.1 Ω to 50 MΩ
Frequency	99.99 Hz to 99.99 kHz
Capacitance	9999 μF
Temperature	-40 °C to 537 °C (-40 °F to 998 °F)
Continuity/diode test	•/•
Data storage and exchange	
Min/Max recording/time stamp	•/
Warranty and safety	
Warranty (years)	3
Safety rating	CAT III 1000 V and CAT IV 600 V
Additional products	
Kits	3Pc 1587 ET Advanced Electrical Troubleshooting Kit
	3Pc 1587 MDT Advanced Motor & Drive Troubleshooting Kit



ELECTRICAL