

Fluke 1587 and 1577 Insulation Multimeters



Fluke 1587

Two powerful tools in one

The Fluke 1587 and 1577 Insulation Multimeters combine a digital 1 kV insulation tester with a full-featured, true-rms digital multimeter in a single compact, handheld unit, which provides maximum versatility for both troubleshooting and preventive maintenance.

- Insulation test (1587: 0.01 MΩ to 2 GΩ) (1577: 0.1 MΩ to 600 MΩ)
- Insulation test voltages (1587: 50 V, 100 V, 250 V, 500 V, 1000 V), (1577: 500 V, 1000 V) for many applications
- Live circuit detection prevents insulation test if voltage > 30 V is detected for added user protection
- Auto-discharge of capacitive voltage for added user protection
- Filter for motor drive measurements (1587 only)
- AC/DC voltage, dc millivolts, ac/dc milliamps, resistance (Ω), and continuity
- Capacitance, diode test, temperature, Min/Max, and frequency (Hz) (1587 only)
- Auto power off to save battery power
- Large display with backlight and large digits
- Included accessories: Remote probe, test leads and probes, alligator clips, (Type K thermocouple, 1587 only)
- Accepts optional Fluke TPAK magnetic hanging system to free your hands for other work
- Rugged, utility hard case allows you to bring everything you need for the job



Fluke 1577



Specifications

Features	1587	1577	1507	1503
Insulation test voltages 50 V, 100 V, 250 V, 500 V, 1000 V	•	–	•	–
Insulation test voltages 500 V, 1000 V	–	•	–	•
Insulation resistance	0.01 MΩ to 2.0 GΩ	0.1 MΩ to 600 MΩ	0.01 MΩ to 10 GΩ	0.1 MΩ to 2 GΩ
Auto-discharge of capacitive voltage	•	•	•	•
Insulation test smoothing reading	•	–	–	–
Frequency	•	–	–	–
Capacitance	•	–	–	–
Diode test	•	–	–	–
Temperature	•	–	–	–
Min/Max	•	–	–	–
Low-pass filter (for work on VSDs)	•	–	–	–
AC/DC voltage	•	•	–	–
DC millivolts	•	•	–	–
AC/DC milliamps	•	•	–	–
Resistance	0.1 Ω to 50 MΩ	0.1 Ω to 50 MΩ	0.1 Ω to 20.00 KΩ	0.1 Ω to 20.00 KΩ
Continuity	•	•	•	•
Warranty	Three-year	Three-year	One-year	One-year
Remote probe, test leads, alligator clips	•	•	•	•
Type K thermocouple	•	–	–	–
Rugged, utility hard case	•	•	•	•
Auto power off	•	•	•	•
Page number	17	17	24	24

Ordering information

Included accessories	Models
Remote probe, test leads, alligator clips, Type K thermocouple (1587 only), hard case and users manual.	FLUKE-1577 Insulation Multimeter
	FLUKE-1587 Insulation Multimeter
	FLUKE-1587/ET Advanced Electrical Troubleshooting Kit
	FLUKE-1587/MDT Advanced Motor and Drive Troubleshooting Kit

Recommended accessories



TPAK
Magnetic Meter Hanger
See page 71



i400
AC Current Clamp
See page 69



C100
Universal Carrying Case
See page 63



TL27
Heavy Duty Test Leads

Recommended kits

Get more value and productivity

Establishing a preventive maintenance program is becoming critical to maintaining the uptime of electrical equipment and can significantly reduce both planned and unplanned downtime. Unplanned downtime costs are difficult to calculate, but are often significant. For some industries, it can represent 1 % to 3 % of revenue (potentially 30 % to 40 % of profits) annually.

These kits can help you be proactive and efficient with your maintenance and can save you up to 10 % off the individual price of the tools.



Fluke 1587/ET Advanced Electrical Troubleshooting Kit includes:

- Fluke 1587 Insulation Multimeter
- Fluke i400 Current Clamp
- Fluke 62 MAX+ Infrared Thermometer



Fluke 1587/MDT Advanced Motor and Drive Troubleshooting Kit includes:

- Fluke 1587 Insulation Multimeter
- Fluke i400 Current Clamp
- Fluke 9040 Phase Rotation Indicator

Check price and availability at www.fluke.com/wtb

Fluke cases and holsters

A premium meter deserves a premium case



Soft cases

CAMO-C25 Camouflage Carrying Case

- High quality 1000D fabric
- Dimensions (HxWxD): 20.3 x 12.1 x 4.6 cm (8 x 4.8 x 1.8 in)

CAMO-C37 Camouflage Carrying Case

- High quality 1000D fabric
- Dimensions (HxWxD): 26.5 x 9 x 3 cm (10.5 x 3.5 x 1.2 in)

C12A Meter Case

- Case with inside pockets and belt loop
- Dimensions (HxWxD): 172 x 128 x 38 mm (6.8 x 5 x 1.5 in)

C75 Accessory Case

- Zippered carrying case
- Dimensions (HxWxD): 179 x 103 x 26 mm (7 x 4 x 1 in)

C50 Meter Case

- Case with inside pocket, belt loop and inside meter strap
- Dimensions (HxWxD): 192 x 90 x 38 mm (7.56 x 3.5 x 1.5 in)

C25 Large Soft Case for DMMs

- Case with padding and inside pocket
- Dimensions (HxWxD): 218 x 128 x 64 mm (8.6 x 5 x 2.52 in)

C90 Soft Case for DMMs

- Case with inside pocket and belt loop
- Dimensions (HxWxD): 205 x 90 x 72 mm (8 x 3.5 x 2.8 in)

C35 Soft Carrying Case

- Made of durable polyester 600D
- Dimensions (HxWxD): 220 x 140 x 65 mm (8.7 x 5.5 x 2.6 in)

C23 Soft Carrying Case

- Case with inside pocket and belt loop
- Dimensions (HxWxD): 225 x 95 x 58 mm (8.9 x 3.75 x 2.3 in)

C280 Soft Case

- Made of durable polyester 600D
- Dimensions (HxWxD): 230 x 185 x 65 mm (9 x 7.3 x 2.6 in)

C115 Soft Carrying Case

- Made of durable polyester 600D
- Dimensions (HxWxD): 240 x 205 x 75 mm (9.5 x 8 x 3 in)

C116 Soft Carrying Case

- Made of durable polyester 600D
- Dimensions (HxWxD): 240 x 230 x 65 mm (9.5 x 9 x 2.6 in)

C781 Meter Case

- Made of durable polyester 600D
- Dimensions (HxWxD): 269 x 141 x 90 mm (10.6 x 5.6 x 3.5 in)

C33 Soft Carrying Case

- Case with inside pocket and belt loop
- Dimensions (HxWxD): 280 x 115 x 55 mm (11 x 4.5 x 2.2 in)

C789 Meter and Accessory Case

- Made of durable polyester 600D
- Dimensions (HxWxD): 308 x 256 x 77 mm (12 x 10 x 3 in)

C43 Soft Carrying Case

- Made of durable polyester 600D
- Dimensions (HxWxD): 318 x 230 x 90 mm (12.5 x 9.1 x 3.5 in)

C550 Tool Bag

- Made of ballistic cloth with heavy-duty hardware
- Dimensions (HxWxD): 333 x 513 x 231 mm (13 x 20.2 x 9.1 in)

C345 Soft Case

- Made of durable polyester 600D
- Dimensions (HxWxD): 360 x 200 x 240 mm (14 x 8 x 9.5 in)

Hard cases

CXT Series Extreme Cases

- Models CXT80, CXT170, and CXT280 for various meter compatibility
- Unbreakable, watertight, airtight, chemical resistant and corrosion proof

C800 Meter and Accessory Case

- Dimensions (HxWxD): 230 x 385 x 115 mm (9 x 15 x 4.5 in)

C101 Hard Case

- Dimensions (HxWxD): 305 x 360 x 105 mm (12 x 14.2 x 4.1 in)

C100 Universal Carrying Case

- Dimensions (HxWxD): 397 x 346 x 122 mm (15.7 x 13.6 x 4.8 in)

C1600 Gear Box

- Includes five hook and loop straps to wrap cords and test leads
- Dimensions (HxWxD): 260 x 390 x 200 mm (10 x 15 x 7.8 in)

Leather cases

C520A Leather Tester Case

- Dimensions (HxWxD): 256 x 154 x 106 mm (10 x 6 x 4 in)

C510 Leather Meter Case

- Dimensions (HxWxD): 287 x 179 x 106 mm (11 x 7 x 4 in)

Holsters

H80M Protective Holster

- Includes a hanging magnet, general purpose hanger, and hook and loop straps
- Dimensions (HxWxD): 190 x 95 x 43 mm (7.5 x 3.7 x 1.7 in)

H5 Electrical Tester Holster

- Dimensions (HxWxD): 192 x 90 x 38 mm (7.5 x 3.5 x 1.5 in)

H3 Clamp Meter Holster

- Dimensions (HxWxD): 231 x 90 x 64 mm (9 x 3.5 x 2.5 in)

H6 IR Thermometer Holster

- Dimensions (HxWxD): 302 x 178 x 57 mm (11.9 x 7 x 2 in)

Cases and Holsters Selection Guide	113/114/115/116/117	27 II/28 II	77-4/115/117/119	83V/87V	233	287/289	8845A/8846A/8808A	120/190/22X Series	51-II/52-II/53-II B/54-II B	561/566/568	63/66/68	321/322	355	365/373/902	374/375/376/381	705/707	712/714/715/716/717/72X Series	718/719	753/754	787/789	T+/T+PRO	T5-600/T5-1000	1503/1507/1577
C12A	*																						
C23	*	*	*	*	*	*					*												
CAMO-C25	*	*	*	*	*	*			*												*		
C25	*	*	*	*	*	*			*												*		*
C33												*										*	
C35			*	*	*	*															*		
CAMO-C37												*		365	*						*		*
C43					*	*	*	*	*												*		
C50	*																				*		
C75	The C75 is designed to hold test leads, probes, clips and other required accessories																						
C90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					*		
C100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	71X				787		
C101	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					*		*
C115/C116	*	*	*	*	*	*	*	*	*	*	*	*	*	365	*	*					*		*
C125				83V	*	*	*	*	*	*	*	*	*	*	*	*					*		*
C280	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					*		*
C345	The perfect case for carrying a wide range of Fluke handheld test tools and accessories																						
C510				*	*	*	*	*	*	*	*	*	*	*	*	*					787		*
C520A																					*	*	*
C550/C1600	The C550 and C1600 are large enough to hold accessories and multiple test tools																						
C781				*	*	*	*	*	*	*	*	*	*	*	*	*	72X	*	*	*	789		*
C789													*	365	*	*					*		*
C799																					*		*
C800			*	*	*	*	*	*	*	*	*	*	*	*	*	*	71X				787		*
CXT80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	72X				*		*
CXT170	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	71X				*		*
CXT280	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					*		*