

TECHNICAL DATA

Fluke 1587/ET Advanced Electrical Troubleshooting Kit



Key features

Fluke 1587 Insulation Multimeter

- With the Fluke 1587, perform insulation tests, plus a wide-range of DMM tasks with confidence and ease.
- Two products in one: Powerful and full-featured multimeter.
- Ideal for work on motors, cables, and switch gear.
- Large display with backlight.
- Filter for motor drive measurements.
- Insulation test (0.01 MΩ to 2 GΩ).
- Insulation test voltages (50 V, 100 V, 250 V, 500 V, 1000 V) for many applications.
- CAT III 1000 V /CAT IV 600 V overvoltage rating for added user protection.

Fluke i400 Current Clamp

- Use the Fluke i400 with your Fluke 1587 to accurately measure AC current without breaking the circuit.
- Use with your Fluke 1587 to measure 1A AC to 400 A AC.
- 1 mA/Amp output guarantees easy reading.
- CAT III 1000 V / CAT IV 600 V overvoltage rating for added user protection.
- Specially designed to offer maximum utility in a very compact shape.

- Maximum conductor: Ø 32 mm.

Fluke 62 MAX+ IR Thermometer

- Dust and water-resistant: IP54 rated.
- Rugged: 3-meter (9.8-foot) drop tested.
- Ergonomically designed: Completely redesigned for a more natural hand fit.
- Distance to spot: 12:1.
- Dual lasers: Identifies area to be measured.
- Large, backlit display: Makes data easier to read, even in dark areas.

Product overview: Fluke 1587/ET Advanced Electrical Troubleshooting Kit

The products in this kit have been specifically selected for both troubleshooting and preventative maintenance applications.

Establishing preventative maintenance programs are 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 often significant. For some industries, it can represent 1% - 3% of revenue (potentially 30% - 40% of profits) annually.

Includes a Fluke 1587 Insulation Multimeter, Fluke i400 Current Clamp, and a Fluke 62 Mini Infrared Thermometer.

- With the Fluke 1587, perform insulation tests, plus a wide-range of DMM tasks with confidence and ease.
- Use the Fluke i400 with your Fluke 1587 to accurately measure AC current without breaking the circuit.
- Check for hot spots and measure temperature with the Fluke 62 Mini non-contact thermometer.

Specifications: Fluke 1587/ET Advanced Electrical Troubleshooting Kit

Fluke 1587 Insulation Multimeters

| Specifications | | |
|----------------|--------------------|--------------|
| Voltage DC | Maximum voltage | 1000 V |
| | Accuracy | ±(0.09% + 2) |
| | Maximum resolution | 0.001V |

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| Voltage AC | Maximum voltage | 1000 V |
| | Accuracy | $\pm(2\% + 3)$ |
| | AC bandwidth | 5 kHz ¹ |
| | | 1. With low pass filter; 3 db @ 800 Hz |
| Maximum resolution | 0.1 mV | |
| Current DC | Maximum amps | 400 mA |
| | Amps accuracy | $\pm(0.2\% + 2)$ |
| | Maximum Resolution | 0.01 mA |
| Current AC | Maximum amps | 400 mA |
| | Amps accuracy | $\pm(1.5\% + 2)$ ¹ |
| | | 1. 1 kHz bandwidth |
| Maximum resolution | 0.01 mA | |
| Resistance | Maximum resistance | 50 M Ω |
| | Accuracy | $\pm(0.9\% + 2)$ |
| | Maximum resolution | 0.1 Ω |
| Capacitance | Maximum capacitance | 9,999 μ F |
| | Accuracy | $\pm(1.2\% + 2)$ |
| | Maximum resolution | 1 nF |
| Frequency | Maximum frequency | 100 kHz |
| | Accuracy | $\pm(0.1\% + 1)$ |
| | Maximum resolution | 0.01 Hz |
| Temperature measurement | -40.0°C to 537°C -40.0°F to 998°F excluding probe | |
| Diode test | Range | 6 V |
| | Resolution | 1 mV |
| | Accuracy | $\pm(2\% + 1)$ |
| Insulation Test | | |
| Minimum test current @ 1 k Ω /V | 1 mA | |
| Test voltages | 50, 100, 250, 500, 1000 V | |
| Maximum resistance per test voltage | 50 V | |
| | 100 V | |
| | 250 V | |
| | 500 V | |
| | 1000 V | 2 G Ω |

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| Maximum resolution per test voltage | 50 V | 0.01 MΩ |
| | 100 V | 0.01 MΩ |
| | 250 V | 0.1 MΩ |
| | 500 V | 0.1 MΩ |
| | 1000 V | 0.1 MΩ |
| Accuracy per test voltage | 50 V | ±(3% + 5) |
| | 100 V | ±(3% + 5) |
| | 250 V | ±(1.5% + 5) |
| | 500 V | ±(1.5% + 5) |
| | 1000 V | ±(1.5% + 5) to 600 MΩ, ±(10% + 3) above 600 MΩ |
| Environmental Specifications | | |
| Operating temperature | -20°C to +55°C | |
| Storage temperature | -40°C to +60°C | |
| Humidity (without condensation) | 0% - 95% (10°C - 30°C) | |
| | 0% - 75% (30°C - 40°C) | |
| | 0% - 40% (40°C - 55°C) | |
| Operating altitude | 2000 m | |
| Safety Specifications | | |
| Overvoltage category | 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 III 1000 V and CAT IV 600 V | |
| Agency approvals | 2000 m CAT III 1000 V, CAT IV 600 V; 3000 m CAT II 1000 V, CAT III 600 V | |
| Mechanical and General Specifications | | |
| Size | 203 x 100 x 50 mm (with holster) | |
| Weight | 624 g | |
| Warranty | 3 years | |
| Battery life Alkaline | Meter use | 1000 hours |
| | Insulation test use | Meter can perform at least 1000 insulation tests with fresh alkaline batteries at room temperature. These are standard tests of 1000 V into 1 MΩ with a duty cycle of 5 seconds on and 25 seconds off. |
| IP Rating | IP40 | |

Fluke i400 AC Current Clamp

| Specifications | |
|--------------------------|-------------|
| Nominal current range | 400 A |
| Continuous current range | 1 A - 400 A |

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| Maximum non-destructive current | 1000 A |
| Lowest measurable current | 1 A |
| Basic accuracy | 2% + 0.06 A (45 - 400 Hz) (% reading + floorspec) |
| Useable frequency | 5 Hz - 20 kHz |
| Output level(s) | 1 mA/A |
| Safety Specifications | |
| Safety | CAT IV 600 V, CAT III, 1000 V |
| Maximum voltage | 1000 V AC rms from earth to ground, in compliance with EN61010 |
| Mechanical and General Specifications | |
| Warranty | 1 year |
| Maximum conductor diameter | 32 mm (1.25 in) |
| Maximum conductor size (busbar) | 750 MCM |
| Output cable length | 1.5 m (59 in) |
| Shrouded banana plugs | Yes |

Fluke 62 MAX+ Infrared Thermometer

| Specifications | | |
|---------------------------|--|---------------------------|
| Temperature range | -30°C to 650°C (-22°F to 1202°F) | |
| Accuracy | ±1.0°C or ±1.0% of reading, whichever is greater -10°C to 0°C: ±2.0 -30°C to -10°C: ±3.0 | |
| Response time (95%) | Fluke 62 MAX+ | < 300 ms (95% of reading) |
| | Spectral response | 8 to 14 microns |
| | Emissivity | 0.10 to 1.00 |
| Optical resolution | 12:1 (calculated at 90% energy) | |
| Display resolution | 0.1°C (0.2°F) | |
| Repeatability of readings | ±0.5% of reading or < ±0.5°C (1°F), whichever is greater | |
| Power | AA battery | |
| Battery life | 8 hours with laser and backlight on | |

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| Physical specifications | Weight | 255 g (8.99 oz) |
| | Size | 175 x 85 x 75 mm (6.88 x 3.34 x 2.95 in) |
| | Operating temperature | 0°C to 50°C (32°F to 122°F) |
| | Storage temperature | -20°C to 60°C (-4°F to 140°F), (without baery) |
| | Operating humidity | 10% to 90% RH non-condensing at 30°C (86°F) |
| | Operating altitude | 2000 meters above mean sea level |
| | Storage altitude | 12,000 meters above mean sea level |
| | IP rating | IP 54 per IEC 60529 |
| | Drop test | 3 meters |
| | Vibration and shock | IEC 68-2-6 2.5 g, 10 to 200 Hz, IEC 68-2-27, 50 g, 11 ms |
| | EMC | EN 61326-1:2006 EN 61326-2:2006 |
| Standards and agency approval | Compliance | EN/IEC 61010-1: 2001 |
| | Laser safety | FDA and EN 60825-1 Class II |

Ordering information



Fluke 1587/ET Kit

Fluke 1587/ET Advanced Electrical Troubleshooting Kit

Includes:

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

Fluke. *Keeping your world up and running.®*

Fluke (UK) Ltd.
52 Hurricane Way
Norwich, Norfolk
NR6 6JB
United Kingdom
Tel.: +44 (0)20 7942 0708
E-mail: cs.uk@fluke.com
www.fluke.com/en-gb

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