

⚠ Read First: Safety Information

Use the tester only as specified in this Instruction Sheet, otherwise the protection provided by the tester may be impaired.













⚠ Warning

To avoid possible electric shock or personal injury, follow these guidelines:

- **Do not use the tester if it is damaged. Before you use the tester, inspect the case. Look for cracks or missing plastic. Pay particular attention to the insulation surrounding the connectors.**
- **Inspect the test leads for damaged insulation or exposed metal. Check the test leads for continuity. Replace damaged test leads before you use the tester.**
- **Do not use the tester if it operates abnormally. Protection may be impaired. When in doubt, have the tester serviced.**
- **Do not operate the tester around explosive gas, vapor, or dust.**
- **Do not apply more than the rated voltage, as marked on the tester, between terminals or between any terminal and earth ground.**
- **Before and after use, when measuring hazardous voltage, verify the tester's operation by measuring a known voltage.**
- **When servicing the tester, use only specified replacement parts.**
- **If the auto-on light does not come on when the test leads are shorted together, do not use the tester.**

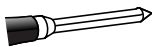
- Use caution when working above 30 V ac rms, 42 V peak, or 60 V dc. Such voltages pose a shock hazard.
- When using the probes, keep your fingers behind the finger guards on the probes.
- Connect the common test lead before you connect the live test lead. When you disconnect test leads, disconnect the live test lead first.
- Do not operate the tester with the battery door or portions of the cover removed or loosened.
- Before each use, perform the Battery Test to avoid false readings due to a low battery. Replace the batteries as soon as the tester fails the Battery Test.

Symbols

	AC (alternating current)		Hazardous Voltage
	DC (direct current)		Double insulated
	Important information		Conforms to European Union Directives
	On light		Beeper
	Earth ground		Underwriters Laboratories Certification
	Conforms to CSA C22.2 No 1010-1-92 + Amendment 2 1997		
 N10140	Conforms to relevant Australian standards		

Probe Styles

Flat Blade



4mm Round



Accessories

H5 Belt Holster

C520 Premium Leather Case

Automatic Operation

The tester automatically turns on when you place the probes across a complete circuit. The auto-on light will come on when the tester is activated. The tester selects continuity or dc or ac voltage mode based on the resistance or voltage between the probes. The tester automatically turns off after about 8 minutes of inactivity.

Measuring Voltage

US voltages shown. LEDs turn on at between 70% and 100% of their marked voltages.

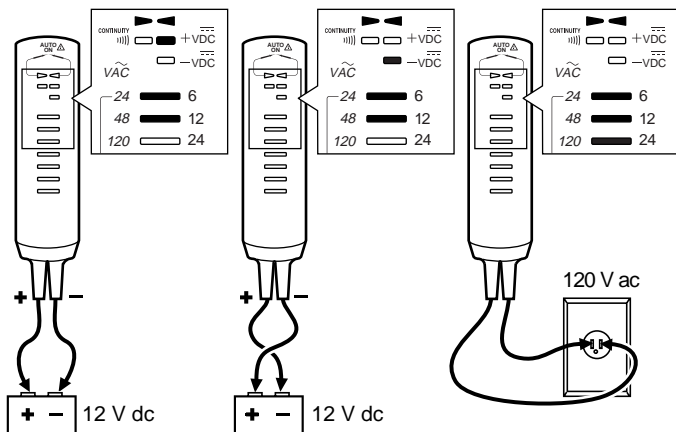
DC Voltage

1000 V dc maximum

AC Voltage

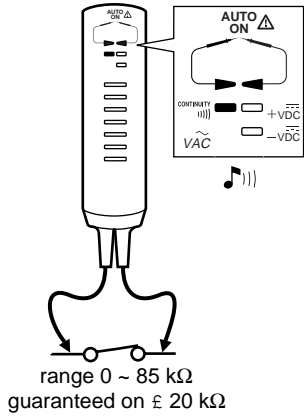
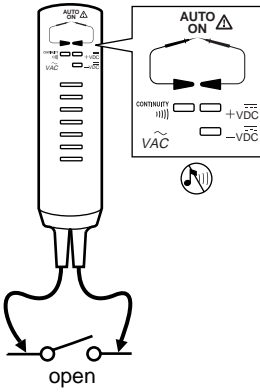
1000 V rms maximum

45 Hz to 66 Hz



Testing for Continuity

Turn off circuit power before testing.



Beeper indicates shorts lasting 10 ms or longer.

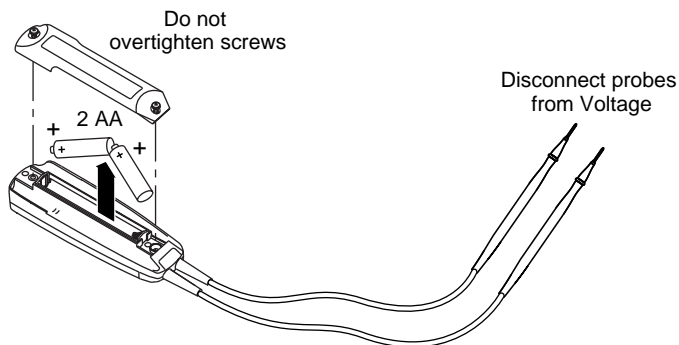
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Maintenance

Clean the case with a damp cloth and mild detergent. Do not use abrasives or solvents.

Battery Test and Replacement

Replace the batteries when touching the leads together no longer turns on the Auto-On LED.



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Service and Parts

To contact Fluke, call one of the following telephone numbers:

USA: 1-888-99-FLUKE (1-888-993-5853)

Canada: 1-800-36-FLUKE (1-800-363-5853)

Europe: +31 402-678-200

Japan: +81-3-3434-0181

Singapore: +65-738-5655

Anywhere in the world: +1-425-446-5500

Or visit Fluke's Web site at: www.fluke.com.

Service is limited to replacement of the following parts:

Test Lead Assembly: Replace only with Fluke double-insulated leads.



PN 686733



PN 688165

Battery Door: PN 1576525

Calibration Information Sheet: PN 1599206

Specifications

Display Accuracy: 70% to 100% of LED rated voltage

Maximum Voltage Between any Terminal and Earth Ground:

1000 V dc; 1000 V ac rms (sine wave), Overvoltage Category III; Tester meets requirements for CAT IV 600 V, allowing use on outdoor/direct burial wiring or utility-side measurements.

Duty Ratio: 2 minute on / 10 minute off for voltages \geq 500V

Input Impedance: \cong 750 k Ω

Temperature: Operating: -10°C to +50°C (14°F to 122°F)

Storage: -30°C to +60°C (-22°F to +140°F)

Relative Humidity: 0°C to 30°C (32°F to 86°F): 90%; 30°C to 40°C (86°F to 104°F): 75%; 40°C to 50°C (104°F to 122°F): 45%

Battery Type and Life: AA (2); 250 hours with NEDA 15F or IEC R6

Shock, Vibration: 1 m drop at 15°C to 35°C (59°F to 95°F). Sinusoidal vibration per MIL-PRF-28800F for a Class 2 instrument (5 Hz to 55 Hz, 3 g maximum)

Size (H x W x L): 2.9 cm x 4.5 cm x 16 cm (1.2 x 1.8 x 6.3 in)

Weight: 224 g (7.9 oz)

Environmental Seal: IP 52 per IEC 529, no vacuum applied

Safety: This tester complies with IEC 1010-1 to 1000V

OVERVOLTAGE Category III, Pollution Degree 2, and with IEC 664-1 to 600 V OVERVOLTAGE Category IV, Pollution Degree 2.*

*OVERVOLTAGE (Installation) Categories refer to the level of Impulse Withstand Voltage protection provided at the specified Pollution Degree.

Equipment of OVERVOLTAGE CATEGORY III is equipment in fixed installations. Examples include switchgear and polyphase motors.

Equipment of OVERVOLTAGE CATEGORY IV is for use at the origin of the installation. Examples include electricity meter and primary over-current protection equipment.

EMC Regulations: EN61326

Certifications:   VDE (Pending)  
Listed 950Z N10140

LIMITED WARRANTY & LIMITATION OF LIABILITY

This Fluke product will be free from defects in material and workmanship for one year from the date of purchase. This warranty does not cover fuses, disposable batteries, or damage from accident, neglect, misuse, alteration, contamination, or abnormal conditions of operation or handling. Resellers are not authorized to extend any other warranty on Fluke's behalf. To obtain service during the warranty period, contact your nearest Fluke authorized service center to obtain return authorization information, then send your defective tester to that Service Center with a description of the problem.

THIS WARRANTY IS YOUR ONLY REMEDY. NO OTHER WARRANTIES, SUCH AS FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSED OR IMPLIED. FLUKE IS NOT LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, ARISING FROM ANY CAUSE OR THEORY. Since some states or countries do not allow the exclusion or limitation of an implied warranty or of incidental or consequential damages, this limitation of liability may not apply to you.

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