80 Series V
Digital Multimeter
Safety Information



Limited Lifetime Warranty.
See the Users Manual for the full warranty.

Go to www.fluke.com to register your product and find more information.

A **Warning** identifies conditions and procedures that are dangerous to the user.

⚠⚠ Warning

To prevent possible electrical shock, fire, or personal injury:

- **Do not alter the Product and use only as specified, or the protection supplied by the Product can be compromised.**
- **Examine the case before you use the Product. Look for cracks or missing plastic. Carefully look at the insulation around the terminals.**
- **The battery door must be closed and locked before you operate the Product.**
- **Remove all probes, test leads, and accessories before the battery door is opened.**
- **Do not use test leads if they are damaged. Examine the test leads for damaged insulation, exposed metal, or if the wear indicator shows. Check test lead continuity.**
- **Do not apply more than the rated voltage, between the terminals or between each terminal and earth ground.**
- **Do not operate the Product with covers removed or the case open.**

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- **Do not touch voltages >30 V ac rms, 42 V ac peak, or 60 V dc.**
- **Use only specified replacement fuses.**
- **Use the correct terminals, function, and range for measurements.**
- **Do not work alone.**
- **Remove circuit power before you connect the Product in the circuit when you measure current. Connect the Product in series with the circuit.**
- **Do not use the Product if it operates incorrectly.**
- **Do not use the Product around explosive gas, vapor, or in damp or wet environments.**
- **Use only specified replacement parts.**
- **Keep fingers behind the finger guards on the probes.**
- **Measure for hazardous voltage without the Low-Pass Filter.**
- **Never attempt an in-circuit current measurement where the open-circuit potential to earth is greater than 1000 V.**
- **Do not use the HOLD function to measure unknown potentials.**
- **Have an approved technician repair the Product.**
- **Remove all probes, test leads, and accessories before the battery door is opened.**
- **To avoid false readings, which could lead to possible electric shock or personal injury, replace the battery as soon as the battery indicator (+ ▬) appears. If the display shows bAtt the Meter will not function until the battery is replaced.**
- **Limit operation to the specified measurement category, voltage, or amperage ratings.**
- **Do not use the TL175 or TP175 test probes in CAT III or CAT IV environments without the probe tip fully extended and correct category rating visible in the window.**
- **When the TL175 is used with instruments or other accessories, the lowest category rating of the combination applies. One exception is when the probe is used with the AC172 or AC175.**

For the Model 88 V only:

- **Make sure that the engine is off before connecting or removing the pickup. The ignition system can create a potential shock hazard.**
- **To prevent possible electric shock or damage to the Meter, turn off engine before making measurements.**

Symbols

Symbol	Description
	WARNING. RISK OF DANGER.
	WARNING. HAZARDOUS VOLTAGE. Risk of electric shock.
	Consult user documentation.
	Conforms to European Union directives
	Battery. Low battery when displayed.
	Fuse
CAT II	Measurement Category II is applicable to test and measuring circuits connected directly to utilization points (socket outlets and similar points) of the low-voltage MAINS installation.
CAT III	Measurement Category III is applicable to test and measuring circuits connected to the distribution part of the building's low-voltage MAINS installation.
CAT IV	Measurement Category IV is applicable to test and measuring circuits connected at the source of the building's low-voltage MAINS installation.
	Double insulated
	This product complies with the WEEE Directive and its marking requirements. The affixed label indicates that you must not discard this electrical/electronic product in domestic household waste. Do not dispose of this product as unsorted municipal waste. For information about take-back and recycling programs available in your country, see the Fluke website.
	AC (Alternating Current)
	DC (Direct Current)
	Continuity test or continuity beeper tone.
	Earth
	Capacitance
	Diode

Safety Specifications

Maximum voltage between any Terminal and Earth Ground.... 1000 V
Frequency Overload Limit ..... $\leq 10^6$ V-Hz
Fuse Protection for mA or µA inputs ..... 0.44 A, 1000 V, IR 10 kA
Fuse Protection for A input ..... 11 A, 1000 V, IR 17 kA
Battery Type..... 9V, IEC 6LR61
Temperature
- Operating..... -20 °C to 55 °C
- Storage..... -40 °C to 60 °C

Operating Relative Humidity ..... 0 % to 90 % (0 °C to 35 °C), 0 % to 75 % (35 °C to 40 °C), 0 % to 45 % (40 °C to 50 °C)
Altitude
- Operating..... ≤2,000 m
- Storage..... ≤12,000 m

Safety..... IEC 61010-1: Pollution Degree 2 IEC 61010-2-033: Measurement CAT III 1000 V / CATIV 600 V

Electromagnetic Compatibility
International: IEC 61326-1: Portable Electromagnetic Environment: IEC 61326-2-1 CISPR 11: Group 1, Class A

Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself.
Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances.
Emissions that exceed the levels required by CISPR 11 can occur when the equipment is connected to a test object.
The equipment may not meet the immunity requirements of this standard when test leads and/or test probes are connected.

Korea (KCC): Class A Equipment (Industrial Broadcasting & Communication Equipment)

Class A: Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.

USA (FCC): 47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103.
In an RF field of 3 V/m total accuracy = specified accuracy + 20 counts.
Except: 600 UA dc range total accuracy = specified accuracy + 60 counts. Temperature not specified.