

FLUKE

301A/301B/301C/ 301D/301E

Clamp Meter

Safety Information



1-Year Limited Warranty.
See the Users Manual for the full warranty.

Go to www.fluke.com to register your Product, read the Users Manual, and find more information.

A **Warning** identifies conditions and procedures that are dangerous to the user. A **Caution** identifies conditions and procedures that can cause damage to the Product or the equipment under test.

⚠️⚠️ Warning

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

- Carefully read all instructions.
- Read all safety information before you use the Product.
- Do not alter the Product and use only as specified, or the protection supplied by the Product can be compromised.
- Do not use the Product around explosive gas, vapor, or in damp or wet environments.
- Do not use the Product if it operates incorrectly.
- Use Product-approved measurement category (CAT), voltage, and amperage rated accessories (probes, test leads, and adapters) for all measurements.
- Do not exceed the Measurement Category (CAT) rating of the lowest rated individual component of a Product, probe, or accessory.

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- **Comply with local and national safety codes. Use personal protective equipment (approved rubber gloves, face protection, and flame-resistant clothes) to prevent shock and arc blast injury where hazardous live conductors are exposed.**
- **Before each use, examine the Product. Look for cracks or missing pieces of the clamp housing or output cable insulation. Also look for loose or weakened components. Carefully examine the insulation around the jaws.**
- **Do not use test leads if they are damaged. Examine the test leads for damaged insulation and measure a known voltage.**
- **Do not touch voltages >30 V ac rms, 42 V ac peak, or 60 V dc.**
- **Do not use in CAT III or CAT IV environments without the protective cap installed on test probe. The protective cap decreases the exposed probe metal to <4 mm. This decreases the possibility of arc flash from short circuits.**
- **Do not measure current while the test leads are in the input jacks.**
- **Do not apply more than the rated voltage, between the terminals or between each terminal and earth ground.**
- **Measure a known voltage first to make sure that the Product operates correctly.**
- **Limit operation to the specified measurement category, voltage, or amperage ratings.**
- **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.**
- **Keep fingers behind the finger guards on the probes.**
- **Hold the Product behind the tactile barrier.**
- **Replace the batteries when the low battery indicator shows to prevent incorrect measurements.**
- **Do not use the HOLD function to measure unknown potentials. When HOLD is turned on, the display does not change when a different potential is measured.**
- **Disconnect power and discharge all high-voltage capacitors before you measure resistance, continuity, capacitance, or a diode junction.**
- **Remove the input signals before you clean the Product.**
- **Repair the Product before use if the battery leaks. Battery leakage may create a shock hazard or damage the Product.**
- **Use only specified replacement parts.**
- **Have an approved technician repair the Product.**
- **Remove the batteries if the Product is not used for an extended period of time, or if stored in temperatures above 50 °C. If the batteries are not removed, battery leakage may result.**

General Specifications

Maximum Voltage

Between any Terminal and Earth Ground	300 V
Between V/ Ω Terminal and COM Terminal	600 V

Battery

Type.....	2 AAA IEC LR03 alkaline
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Temperature

Operating.....	-10 °C to 50 °C
Storage.....	-30 °C to 60 °C

Operating Humidity	Non condensing (<10 °C) ≤90 % RH (@ 10 °C to 30 °C) ≤75 % RH (@ 30 °C to 40 °C) ≤45 % RH (@40 °C to 50 °C)
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Operating Altitude	2000 m
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Storage Altitude	12000 m
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Safety	IEC 61010-1, Pollution Degree 2 IEC 61010-2-032: CAT III 300 V
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Ingress Protection

(IP) Rating	IEC 60529: IP30
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Electromagnetic Compatibility (EMC)

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

Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.

Korea (KCC).....	Class A equipment (Industrial Broadcast & Communications Equipment)
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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.
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Complete specifications are at www.fluke.com.

See the 301A/301B/301C and 301D/301E Users Manual.

Symbols

Symbol	Description
	WARNING. HAZARDOUS VOLTAGE. Risk of electric shock.
	WARNING. RISK OF DANGER.
	Consult user documentation.
OFF	Turn off the Product.
	AC (Alternating Current)
	DC (Direct Current)
	Battery
	Earth
	Double Insulated
	Application around and removal from uninsulated hazardous live conductors is permitted.
CE	Conforms to European Union directives.
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.
	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.