FLUKE®

381

Remote Display True-rms Clamp Meter

Safety Information



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

To register your product, or to view, print, or download the latest manual or manual supplement, go to: www.fluke.com/productinfo.

Safety Information

A **Warning** identifies hazardous 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:

- **Use the Meter only as specified in the Users Manual or the protection provided by the Meter can be compromised.**
- **Examine the case before you use the Meter. Look for cracks or missing plastic. Carefully look at the insulation around the connectors.**
- **Examine the test leads for damaged insulation or exposed metal. Check test lead continuity. Replace damaged test leads before using the Meter.**

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- **Do not use the Meter around explosive gas, vapor or in damp or wet environments.**
- **Use extreme caution when working around bare conductors or bus bars. Contact with the conductor could result in electric shock.**
- **Be careful around voltages >30 V ac rms, 42 V ac peak, or 60 V dc. Such voltages pose a shock hazard.**
- **Adhere to local and national safety codes. Individual protective equipment must be used to prevent shock and arc blast injury where hazardous live conductors are exposed.**
- **Do not work alone.**
- **Do not use the Meter if it operates incorrectly. Protection can be compromised. When in doubt, have the Meter serviced.**
- **Never measure ac current while the test leads are inserted into the input jacks.**
- **Do not apply more than the rated voltage, as marked on the Meter, between the terminals or between any terminal and earth ground.**
- **When using the probes, keep fingers behind the finger guards on the probes.**
- **When measuring, keep fingers behind the Tactile Barrier.**
- **Do not measure ac/dc current in circuits carrying more than 1000 V or 1000 A with the Meter Jaw.**
- **Do not measure ac current in circuits carrying more than 1000 V or 2500 A with the Flexible Current Probe.**
- **Take special care during fitting and removal of the Flexible Current Probe. De-energize the installation under test or wear suitable protective clothing.**
- **Measure a known voltage to verify product operation.**
- **Use the proper jacks, function, and range for the measurement application.**
- **Disconnect circuit power and discharge all high-voltage capacitors before you do diode tests or measure resistance, continuity, or capacitance.**
- **To avoid false readings that can lead to electrical shock and injury, replace the batteries as soon as the low battery indicator (meter or remote) appears.**
- **Remove the test leads from the Meter before the battery door is opened.**
- **Use only type AAA batteries, properly installed in the Meter case, to power the Meter.**
- **Never operate the Meter with the back cover removed or the case open.**
- **When servicing the Meter, use only specified replacement parts.**

- **Have the Meter serviced only by qualified service personnel.**

Symbols

Symbol	Description
	WARNING. HAZARDOUS VOLTAGE. Risk of electric shock.
	WARNING. RISK OF DANGER.
	Consult user documentation.
	Battery
	Double Insulated
	Earth
	Do not apply around or remove from uninsulated hazardous live conductors without taking additional protective measures.
	Application around and removal from uninsulated hazardous live conductors is permitted.
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.
	Conforms to European Union directives.
	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.

Specifications

Maximum voltage between any terminal and earth ground.....1000 V

Temperature

Operating .....-10 °C to +50 °C

Storage .....-40 °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
(Non condensing)

Operating Altitude..... 2000 meters

Storage Altitude..... 12 000 meters

Safety

EC 61010-1 ..... Pollution degree 2

IEC 61010-2-032 ..... CAT III 1000 V / CAT IV 600 V

IEC 61010-2-033 ..... CAT III 1000 V / CAT IV 600 V

Wireless Radio BLE Module

2.4 GHz Frequency Range..... 2400 MHz to 2483.5 MHz

Radio Frequency Certification..... FCC ID: T68-F381
IC: 6627A-F381

Electromagnetic Compatibility (EMC)

International ..... IEC 61326-1: Portable
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.

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

Emissions that exceed the levels required by CISPR 11 can occur when the equipment is connected to a test object.

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.