

# GFL-1500

## Solar Ground Fault Locator

### 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](http://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:**

- **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.**

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BC



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- **Carefully read all instructions.**
- **Use only current probes, test leads, and adapters specified for use with the Product.**
- **Batteries contain hazardous chemicals that can cause burns or explode. If exposure to chemicals occurs, clean with water and get medical aid.**
- **Do not use the Product if it is altered or damaged.**
- **Examine the case before you use the Product. Look for cracks or missing plastic. Carefully look at the insulation around the terminals.**
- **Do not use test leads if they are damaged. Examine the test leads for damaged insulation and measure a known voltage.**
- **Be sure that the battery polarity is correct to prevent battery leakage.**
- **Do not touch voltages >30 V ac rms, 42 V ac peak, or 60 V dc.**
- **Do not work alone.**
- **Limit operation to the specified measurement category, voltage, or amperage ratings.**
- **Do not exceed the Measurement Category (CAT) rating of the lowest-rated individual component of a Product, probe, or accessory.**
- **Do not make connections on hazardous live conductors in damp or wet environments.**
- **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.**
- **Do not operate the Product with covers removed or the case open. Hazardous voltage exposure is possible.**
- **Measure a known voltage first to make sure that the Product operates correctly.**
- **Use the correct terminals, function, and range for measurements.**

- **Do not use the Product around explosive gas, vapor, or in damp or wet environments.**
- **Do not apply more than the rated voltage, between the terminals or between each terminal and earth ground.**
- **Keep fingers behind the finger guards on the probes.**
- **The battery door must be closed and locked before you operate the Product.**
- **Have an approved technician repair the Product.**
- **Disable the Product if it is damaged.**
- **Repair the Product before use if the battery leaks. Battery leakage may create a shock hazard or damage 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.**
- **Remove all probes, test leads, and accessories before the battery door is opened.**
- **Use replacement cells that have closely-matched capacities, are of the same design, chemistry, age, and are from the same manufacturer. Mismatched batteries can lead to gas formation and subsequent cell rupture.**
- **Use the Clamp only on insulated conductors. Use caution around bare conductors or bus bars. To prevent electrical shock, do not touch the conductor.**
- **Hold the Product behind the tactile barrier.**
- **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.**

## Symbols

The table below lists the symbols that can be used on the Product or in this document.

Symbol	Description
	Consult user documentation.
	WARNING. RISK OF DANGER.
	WARNING. HAZARDOUS VOLTAGE. Risk of electric shock.
	Earth
	Fuse
	Double Insulated
	Battery
	Do not apply around or remove from uninsulated hazardous live conductors without taking additional protective measures.
<b>CAT III</b>	Measurement Category III is applicable to test and measuring circuits connected to the distribution part of the building's low-voltage MAINS installation.
<b>CAT IV</b>	Measurement Category IV is applicable to test and measuring circuits connected at the source of the building's low-voltage MAINS installation.
<b>CE</b>	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

Size	
Transmitter	240 mm x 180 mm x 100 mm (9.45 in x 7.0 in x 3.94 in)
Receiver	190 mm x 80 mm x 40 mm (7.48 in x 3.15 in x 1.57 in)
Clamp	257 mm x 116 mm x 46 mm (10.1 in x 4.6 in x 1.8 in)

<b>Weight, with batteries</b>	
Transmitter	1.8 kg (6.17 lb)
Receiver	0.24 kg (0.53 lb)
Clamp	0.6 kg (1.32 lb)
<b>Batteries</b>	AA, IEC LR6, alkaline, compatible with rechargeable AA batteries
Transmitter	8 x AA
Receiver	4 x AA
Clamp	2 x AA
<b>Ambient Temperature</b>	
Operating	
Transmitter, Receiver	-20 °C to 50 °C (-4 °F to 122 °F)
Clamp	-10 °C to 50 °C (14 °F to 122 °F)
Storage, without batteries	
Transmitter, Receiver	-20 °C to 70 °C (-4 °F to 158 °F)
Clamp	-40 °C to 60 °C (-40 °F to 140 °F)
<b>Relative humidity</b>	
Operating	
Transmitter, Receiver	95 %, 0 °C to <30 °C (32 °F to <86 °F) 75 %, 30 °C to <40 °C (86 °F to <104 °F) 45 %, 40 °C to 50 °C (104 °F to 122 °F), non-condensing
Clamp	90 %, 10 °C to <30 °C (50 °F to <86 °F) 75 %, 30 °C to <40 °C (86 °F to <104 °F) 45 %, 40 °C to 50 °C (104 °F to 122 °F), non-condensing
Storage, without batteries	
Transmitter, Receiver, Clamp	<95 %, non-condensing
<b>Altitude</b>	
Operating	
Transmitter, Receiver, Clamp	3000 m
Storage, without batteries	
Transmitter, Receiver, Clamp	12 000 m

<b>Safety</b>	
Transmitter, Receiver	Conforms to Low Voltage Directive and applicable North America standards IEC 61010-1: Pollution Degree 2; IEC 61010-2-030, CAT IV 600 V, CAT III 1500 V dc; IEC 60529: IP54, protection against dust and splashes of water
Clamp	Conforms to Low Voltage Directive and applicable North America standards IEC 61010-1: Pollution Degree 2; IEC 61010-2-032; IEC 60529: IP30, protection against contaminants >2.5 mm with the jaw closed
<b>Electromagnetic Compatibility (EMC)</b>	
International	IEC 61326-1: Basic Electromagnetic Environment; IEC 61326-2-2: Portable Equipment; CISPR 11: Group 1, Class A  <i>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.</i> <i>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.</i> <i>Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.</i>
Korea (KCC)	Class A Equipment (Industrial Broadcasting & Communication Equipment)  <i>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.</i>
USA (FCC)	47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103.