FLUKE CONNECT®

FLUKE®

1732/1734
Energy Logger

Safety Information



2-Year Limited 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.

⚠⚠ Warnings

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.**
- **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.**
- **Examine the case before you use the Product. Look for cracks or missing plastic. Carefully look at the insulation around the terminals.**
- **Replace the mains power cord if the insulation is damaged or if the insulation shows signs of wear.**
- **Use Product-approved measurement category (CAT), voltage, and amperage rated accessories (probes, test leads, and adapters) for all measurements.**

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- **Do not use test leads if they are damaged. Examine the test leads for damaged insulation and measure a known voltage.**
- **Do not use the Product if it is altered or damaged.**
- **The battery door must be closed and locked before you operate the Product.**
- **Do not work alone.**
- **Use this Product indoors only.**
- **Do not use the Product around explosive gas, vapor, or in damp or wet environments.**
- **Use only the external mains power supply included with the Product.**
- **Do not exceed the Measurement Category (CAT) rating of the lowest rated individual component of a Product, probe, or accessory.**
- **Keep fingers behind the finger guards on the probes.**
- **Do not use a current measurement as an indication that a circuit is safe to touch. A voltage measurement is necessary to know if a circuit is hazardous.**
- **Do not touch voltages >30 V ac rms, 42 V ac peak, or 60 V dc.**
- **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.**
- **De-energize the circuit or wear personal protective equipment in compliance with local requirements before you apply or remove the flexible current probe.**
- **Remove all probes, test leads, and accessories before the battery door is opened.**
- **Do not use USB accessories when the Product is installed in environment with wires or exposed metal parts with hazardous live voltage such as in cabinets.**
- **Do not operate the touch screen with sharp objects**
- **Do not use the Product if the protection film on the touch panel is damaged.**
- **Do not touch the metal parts of one test lead when the other is still connected to hazardous voltage.**
- **Do not short the battery terminals together.**
- **Do not disassemble or crush battery cells and battery packs.**
- **Do not put battery cells and battery packs near heat or fire. Do not put in sunlight.**
- **Remove the batteries if the Product is not used for an extended period of time or stored in temperatures >50 °C.**
- **Use only the Product to charge the battery.**
- **Have an approved technician repair the Product.**

⚠ Caution

- **Replace the rechargeable battery after 5 years of moderate use or 2 years of heavy use. Moderate use is defined as recharged twice a week. Heavy use is defined as discharged to cutoff and recharged daily.**

Symbols

Symbol	Description
	WARNING. RISK OF DANGER.
	WARNING. HAZARDOUS VOLTAGE. Risk of electric shock.
	Consult user documentation.
	Double Insulated
	Earth
	Battery
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.
CE	Conforms to European Union directives.
 **Li-ion**	This product contains a Lithium-ion battery. Do not mix with the solid waste stream. Spent batteries should be disposed of by a qualified recycler or hazardous materials handler per local regulations. Contact your authorized Fluke Service Center for recycling information.
	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.

Safe Battery Disposal

- A failed battery pack shall be properly disposed of in accordance with local regulations.
- Dispose of properly. Do not dispose of the battery as unsorted municipal waste.
- Dispose in discharged condition and cover the battery terminals with isolation tape.

Safety Specifications

Energy Logger

Operating Temperature	-10 °C to +50 °C (+14 °F to +122 °F)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Operating Humidity	<10 °C (<50 °F) non condensing 10 °C to 30 °C (50 °F to 86 °F) ≤95 % 30 °C to 40 °C (86 °F to 104 °F) ≤75 % 40 °C to 50 °C (104 °F to 122 °F) ≤45 %
Altitude	
Operating	2000 m (up to 4000 m derate to 1000 V CAT II/600 V CAT III/300 V CAT IV)
Storage	12 000 m
IP Rating	IEC 60529:IP50, in connected condition with protection caps in place
Battery	Li-ion 3.7 V, 9.25 Wh, customer-replaceable
Operating Temperature	-10 °C to +50 °C (+14 °F to +122 °F)
Storage Temperature	-20 °C to +50 °C (-4 °F to +122 °F)

Safety

IEC 61010-1	
IEC Mains Input	Overvoltage Category II, Pollution Degree 2
Voltage Terminals	Overvoltage Category IV, Pollution Degree 2
IEC 61010-2-033	CAT IV 600 V / CAT III 1000 V

Electromagnetic Compatibility (EMC)

International..... IEC 61326-1: Industrial
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.

Wireless Radio with Adapter

Frequency Range..... 2412 MHz to 2462 MHz

Max Conducted Output Power ..... 25.02 dBm