

FEV150/FEV350

EV Charging Station Analyzer

Safety Information



2-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 our website:
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.**
- **Carefully read all instructions.**
- **Do not use the Product if it operates incorrectly.**

PN 5586341 (English)

2/2024 Rev. 2, 5/2024

©2024 Fluke Corporation. All rights reserved. Specifications are subject to change without notice. All Product names are trademarks of their respective companies.

Fluke Corporation
6920 Seaway Blvd
Everett WA 98203
U.S.A.






Fluke Europe B.V.
P.O. Box 1186
5602 BD Eindhoven
The Netherlands


- Do not touch voltages >30 V ac rms, 42 V ac peak, or 60 V dc.
- 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.
- 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.
- Use Product-approved Measurement Category (CAT), voltage, and amperage-rated accessories (probes, test leads, and adapters) for all measurements.
- Do not operate the Product with covers removed or the case open. Hazardous voltage exposure is possible.
- Remove the input signals before you clean the Product.
- 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.
- Use the correct terminals, function, and range for measurements.
- Do not use the Product around explosive gas, vapor, or in damp or wet environments.
- Use only specified replacement parts.
- For tests that use an MFT, connect the test leads to the MFT and then to the Product.
- Do not disassemble the Product.
- Have an approved technician repair the Product.
- 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 apply more than the rated voltage, between the terminals or between each terminal and earth ground.

- Remove all probes, test leads, and accessories that are not necessary for the measurement.
- Use only current probes, test leads, and adapters supplied with the Product.
- 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.
- The battery door must be closed and locked before you operate the Product.
- Be sure that the battery polarity is correct to prevent battery leakage.
- 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.

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
	Double Insulated
IR	Minimum fuse interrupt rating
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.

Symbol	Description
CP Stop	Stop a control pilot test
PE PRE-TEST	Protective earth pre-test
PE	Protective earth
N	Neutral
L1, L2, L3	Line phase jacks
	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

Input electrical ratings	
FEV350	1 Φ : 250 V max, 3 Φ : 230/400 V max, 50/60 Hz, max 1 A
FEV150	250 V max, 50/60 Hz, max 1 A
Internal power consumption	3 W max
Size (H x W x D)	~(263 mm x 123 mm x 63 mm) ~(10.35 in x 4.84 in x 2.48 in), without the TY1 or TY2 plug
Weight	~0.9 kg, without the TY1 or TY2 plug ~1.4 kg, with the TY1 or TY2 plug
Battery	4 x AA/IEC LR6 alkaline or IEC HR6 NiMH
Temperature	
Operating	-10 °C to 40 °C (14 °F to 104 °F)
Storage	-20 °C to 50 °C (-4 °F to 122 °F)
Relative humidity	
Operating	10 % to 85 %, 0 °C to 40 °C (32 °F to 104 °F), non-condensing
Storage	up to 95 %
Wireless radio, Bluetooth 5.0	
Frequency range	2400 MHz to 2483.5 MHz
Output power	<100 mW

Altitude	3000 m
Safety	IEC 61010-1: Pollution Degree 2, IEC 61010-2-030, CAT II 300 V, Protection Class II
Performance	IEC 61557-1, IEC 61557-6, IEC 61557-7, IEC 61557-10
Ingress Protection	IEC 60529: IP40
Electromagnetic Compatibility (EMC)	
International	IEC 61326-1: Basic Electromagnetic Environment, 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. Emissions that exceed the levels required by CISPR 11 can occur when the equipment is connected to a test object.</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 C Sections 15.203, 15.209, 15.249

SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, Fluke declares that the radio equipment contained in this Product is in compliance with Directive 2014/53/EU. The full text of the EU declaration is available at the following internet address: www.fluke.com/red.