

FEV300

Electrical Vehicle Charging Station Test Adapter

Safety Information



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

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 the possibility of electric shock 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.
- 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.

- **Do not operate the Product with covers removed or the case open. Hazardous voltage exposure is possible.**
- **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.**
- **Remove the input signals before you clean the Product.**
- **Use only specified replacement parts.**
- **Have an approved technician repair the Product.**
- **Do not use cable assembly if there is damage. Examine the cable assembly for damaged insulation, exposed metal. Check cable assembly continuity.**
- **Measure a known voltage first to make sure that the Product operates correctly.**
- **Do not use the Product around explosive gas, vapor, or in damp or wet environments.**
- **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 cable assembly if they are damaged. Examine the cable assembly for damaged insulation and measure a known voltage.**
- **Use only accessory supplied with the Product.**
- **Only connect the Product to the charging stations as indicated in the Specification section.**
- **Use the Product within the operating range only. The operating range is specified in the Specification section.**

Symbols

Symbol	Description
	WARNING. RISK OF DANGER.
	WARNING. HAZARDOUS VOLTAGE. Risk of electric shock.
	Consult user documentation.
	Earth
	Double Insulated.
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.
PE	PE Protective Earth.
CP	CP Control Pilot.
	Vehicles not requiring ventilation for indoor charging areas.
	Vehicles requiring ventilation for indoor charging areas.
	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.

Contact Fluke

Fluke Corporation operates worldwide. For local contact information, go to our website: www.fluke.com

To register your product, view, print, or download the latest manual or manual supplement, go to our website.

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Specifications

General Features

Input voltage.....	Up to 250 V (single phase system) / up to 480 V (three phase system), 50/60 Hz, max 10 A
Internal power consumption..	3 W max.
FEV300-CON-TY2 Plug.....	AC charging mode 3, suitable to IEC 62196-2 type 2 socket outlet or fixed cable with vehicle connector (type 2, 7P three-phase)
FEV300-CON-TY1 Plug.....	AC charging mode 3, suitable to IEC 62196-2 type 1 or SAE J1772 with vehicle connector (type 1, 5P single-phase)
Dimensions (H × W × D).....	110 mm × 45 mm × 220 mm (4.3 in × 1.8 in × 8.7 in) length without connection cable and test cable
Weight (including type 1 or type 2 connection cable).....	Approx. 1 kg (2.2 lb)
Safety standards	IEC/EN 61010-1, pollution degree 2 IEC/EN 61010-2-030, CAT II 300 V, protection class II
Ingress protection.....	IEC 60529: IP54 (housing) IEC 60529: IP54 (Measuring terminals with protection caps in place, connector/plug in connected condition or with protection caps in place, otherwise IP20)
Operating temperature.....	-20 °C to 40 °C (-4 °F to 104 °F)
Storage temperature	-20 °C to 50 °C (-4 °F to 122 °F)
Operating humidity range.....	10 % to 85 % relative humidity non-condensing
Storage relative humidity	0 % to 85 % non-condensing
Operating altitude.....	2000 m (6561 ft) max.

Functions

PE Pre-Test	Visible indication >50 V AC/DC between PE conductor and touch sensor
PP Simulation.....	Open, 13 A, 20 A, 32 A, 63 A
CP States	State A, B, C, D
CP Error state "E"	On/off (CP signal short-circuited to PE)
PE Error state "F" (Earth fault).....	On/off (interruption of PE conductor)

Outputs (for test purpose only)

Measuring terminals L1, L2, L3, N, PE.....	Max. 250/480 V, max. 10 A
CP signal output terminals	Approx. +/-12 V
<i>Caution: In case of wrong wiring or error of the charging station these terminals may be hazardous.</i>	