ACEZ INSTRUMENTS
Knowledge Based Solutions

RENT & SAVE COST!!

Fluke FEV350

Comprehensive EV Charging Station Analyzer

Maximize Uptime and Ensure Safety with the All-in-One EVSE Testing Solution !!

Why Fluke FEV350?

- **Comprehensive All-in-One Testing**
  - The FEV350 consolidates multiple EV charging station tests—such as protective earth pre-tests, RCD trip tests (30mA and 6mA), voltage and phase sequence checks, Control Pilot waveform analysis, error testing, and visual inspections.
- **Advanced Diagnostic Capabilities.**
  - It offers Auto Control Pilot simulation that automatically cycles through all charge states with detailed waveform analysis and clear pass/fail indications, enabling in-depth troubleshooting and verification of EVSE functionality.
- **Efficient Data Management and Reporting.**
  - Measure ground resistance without disconnecting rods or driving stakes—ideal for restricted or hard-to-access sites.
- **Built for Field Durability and Safety Compliance.**
  - Designed to meet IEC/EN 61851-1 and IEC/HD 60364-7-72 standards, the FEV350 is rugged and reliable for use in challenging environments, ensuring safety and regulatory compliance.
- **Time and Cost Savings.**
  - By streamlining testing, providing automated pass/fail results, and enabling quick troubleshooting, the FEV350 reduces inspection and maintenance time, lowers service costs, and helps minimize EVSE downtime.

The Fluke FEV350 is a leading choice for EV charging station testing because it offers a comprehensive, all-in-one solution designed to simplify and enhance the safety, functionality, and performance verification of AC EV charging stations with Type 1 or Type 2 connectors.

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Summary of Tests & Deliverables.

The Fluke the FEV350 delivers a complete testing and documentation solution for EV charging stations, enabling technicians to perform multiple safety and functionality tests quickly and confidently, while producing professional, standards-compliant reports. This streamlines inspection, troubleshooting, and maintenance workflows, especially in commercial and fleet EV charging environments.

Deliverables.

- Pass/Fail test results with clear, on-device indications simplifying analysis.
- Datalogging and storage of detailed test data on the device.
- Integration with Fluke TruTest™ Software enables efficient data management, creation of inspection reports.

Why Rent the Fluke FEV350?

- Cost-efficient for occasional use.
- Unified testing without multiple tools.
- Quick testing with pass/fail results.
- Advanced data management and reporting.
- Wiring configuration diagrams and Info Screens to aid in troubleshooting and documentation.

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Key Features Table.

Test Conducted	Purpose	Test Range & Value	Compliance Standard	Industrial/ Utility Code	Specific Need for Test
PE (Protective Earth) Pre- Test	Ensures no dangerous voltage is present on the earth conductor before connecting.	Touch voltage, safe range: ≤50 V AC/DC Touch voltage, dangerous range: >50 V AC/DC	IEC/EN 61851-1IEC/HD 60364-7-72	National Electrical Code (NEC)	Protects technicians and equipment from potential electric shock hazards during testing. Ensures safety before any further tests are conducted.
30 mA RCD Trip Test	Verifies the correct operation of the 30mA Residual Current Device (RCD).	Trip time with AC, half wave, DC (0°, 180°): 0 ms to 510 ms	IEC/EN 61851-1IEC/HD 60364-7-72	N/A	Ensures the RCD trips quickly enough to prevent electrical shock in case of a fault. Vital for personnel safety.
6 mA RDC-DD Trip Test	Verifies the correct operation of the 6mA Residual Direct Current Detecting Device.	Trip time (0°, 180°): +3 mA DC 0.000 s to 10.100 s +6 mA DC: 0 ms to 310 ms	IEC/EN 61851-1IEC/HD 60364-7-72	\N/A	Essential for EV charging stations to protect against DC leakage currents, which can blind traditional AC RCDs. Complies with specific EV charging safety requirements.
Nominal Voltage + Phase Sequence	Confirms correct voltage levels and phase sequence to prevent equipment damage.	L-N, L-PE, N-PE: 0 V to 280 V L-L: 0 V to 490 V	IEC/EN 61851-1IEC/HD 60364-7-72	N/A	Ensures the charging station receives the correct power supply. Prevents damage to the EV and charging station due to incorrect voltage or phase configuration.
Auto Control Pilot (CP) with Waveform Analysis	Simulates EV connection and analyzes the CP signal for proper communication.	N/A, automated cycling through charge states	IEC/EN 61851-1IEC/HD 60364-7-72	SAE J1772	Verifies that the charging station and EV can communicate correctly, enabling proper charging. The waveform analysis allows for in-depth troubleshooting of communication issues.
Proximity Pilot Testing	Checks the proximity pilot circuit operation.	N/A	IEC/EN 61851-1IEC/HD 60364-7-72	SAE J1772	Validates proper operation of proximity detection, which ensures the charging cable is securely connected before charging begins.

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Test Conducted	Purpose	Test Range & Value	Compliance Standard	Industrial/ Utility Code	Specific Need for Test
Test Conducted	Purpose	Test Range and Value	Compliance Electrical Standard	Industrial and Utility Code	Specific Need and Requirement
Error Testing	Detects and analyzes simulated fault conditions in the charging station.	N/A	IEC/EN 61851-1IEC/HD 60364-7-72	N/A	Verifies that the charging station responds correctly to fault conditions, ensuring safe operation and preventing damage.

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If you are….

- EV charging infrastructure operators and maintenance teams conducting routine safety inspections, troubleshooting, and performance verification of commercial and public EV charging stations.
- Electrical contractors and installation companies performing EVSE commissioning and certification.
- Inspection and certification bodies conducting on-site compliance testing and certification services.
- Fleet Operators and Facility Managers who conducts periodic testing and maintenance of their EV charging assets.
- Small electrical service providers and technicians performing occasional EVSE testing jobs requiring advanced diagnostics.
- Equipment rental companies offering the FEV350 as part of their portfolio to serve diverse customers in the growing EV infrastructure sector.
- Training centers and educational institutions needing units for hands-on training on EV charging station testing and maintenance.

Contact us today to reserve the Fluke FEV350 for your testing requirements!

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Click on the links for.
Rental Contract.
Fluke FEV350 Specifications.
Fluke FEV350 User Manual.
Watch Video.

Date : 19th April, 2025