

Fluke 1664 FC Installation Multi-function Tester

Comprehensive Electrical Installation Testing !!

Rent And Save Cost !!

Why Fluke 1664FC?

- Insulation Pre-Test - Detects if appliances are connected before insulation testing.
- AutoTest Mode - Automates up to seven installation tests in one sequence, reducing test time by up to 40%.
- EV RCD Testing - Supports EV charging station RCDs type A-EV or RDC-DD DC protection devices according to IEC 62955, including 6 mA DC monitor testing.
- Data Management - Comprehensive data Management with built-in memory with USB download capability.

Fluke 1664 FC is for verifying the safety and compliance of electrical fixed wiring installations in domestic, commercial, and industrial environments. It is designed to quickly and efficiently perform multiple installation tests required by local regulations, including insulation resistance, continuity, loop and line impedance, earth resistance, RCD testing (including advanced testing for EV charging station RCDs), and phase sequence indication.

Summary of Tests & Deliverables.

The Fluke 1664 FC combines essential electrical installation tests into a single, easy-to-use device that ensures compliance with IEC 61557 standards and local regulations. Its unique Insulation PreTest protects connected equipment, while AutoTest mode accelerates testing workflows. The tester's ability to handle EV charging station RCD testing and wireless data sharing makes it a future-ready tool for professional electricians and contractors.

Deliverables.

Comprehensive test results with clear pass/fail indicators.

Automated test sequences reducing test time by up to 40%.

Wireless data transfer and cloud storage for easy reporting and compliance documentation.

Protection of connected equipment via Insulation PreTest.

Support for advanced RCD testing including EV charging station requirements.

Key Features Table.

Test Conducted	Purpose	Test Range & Value	Compliance Standard	Industrial/Utility Code	Specific Need for Test
Insulation Resistance	Verify insulation integrity to prevent leakage and faults	50 V, 100 V, 250 V, 500 V, 1000 V; up to 1000 MΩ range; 1 mA test current at 50 kΩ load	EN 61557-2	SS 638:2018 (Singapore), IEC 61557-2	Ensures cables and equipment insulation is intact, preventing electric shock and fire hazards
Continuity	Confirm conductor connectivity and low resistance	0.01 Ω to 2000 Ω range; >4 V open circuit voltage	EN 61557-4	SS 638:2018, IEC 61557-4	Detects breaks or high resistance in protective earth and bonding conductors to maintain safety
Loop / Line Impedance	Measure earth fault loop impedance to verify fault current path	10 Ω (high current mode) to 2000 Ω; resolution down to 1 mΩ	EN 61557-3	SS 638:2018, IEC 61557-3	Ensures proper fault current flow for protective devices to operate correctly during faults
Residual Current Device (RCD) Testing	Verify RCD trip time and current for proper operation and protection	Trip current range 30%-210% of rated current; trip time step 300-500 ms; VAR mode for DC sensitive RCDs	EN 61557-6, IEC 61008-1, IEC 62955	SS 638:2018, IEC 61008-1	Confirms RCDs disconnect power quickly during leakage faults to prevent electrocution and fire
Earth Resistance Measurement	Measure resistance of earth electrodes and grounding systems	0.1 Ω to 2000 Ω; test voltage 25 V; frequency 128 Hz	EN 61557-5	SS 638:2018, IEC 61557-5	Validates grounding system effectiveness for safety and equipment protection
Phase Sequence Indication	Verify correct phase rotation in three-phase systems	Voltage range 100 V to 500 V; displays phase order (1-2-3 or 3-2-1)	EN 61557-7	SS 638:2018, IEC 61557-7	Ensures correct motor and equipment rotation direction to avoid mechanical damage and operational faults

If you are.....

- Electrical contractors and installation professionals who perform fixed wiring safety tests in residential, commercial, and industrial environments.
- Maintenance and service engineers responsible for periodic electrical safety verification and fault finding.
- Involved in EV charging station installation and maintenance, needing specialized RCD testing capabilities.
- Electrical training institutions and vocational schools that teach electrical installation and testing, providing students hands-on experience with industry-standard equipment.
- Facility management companies overseeing electrical safety and compliance in large buildings or campuses.
- Rental companies supplying electrical testing equipment to contractors and engineers who need short-term access to high-end testers without purchasing.

Contact us today to reserve the Fluke 1664FC for your testing requirements!

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Click on the links for.

1. Rental Contract.
2. Fluke 1664FC Specifications.
3. Fluke 1664FC User Manual.
4. Fluke 1664FC Quick Reference Guide.

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