

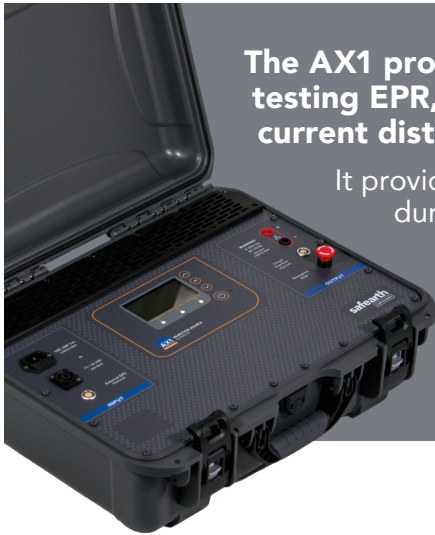
AX1 Injection Source

Comprehensive earthing system testing

Testing earthing system performance, including step, touch and transfer voltages, has never been more effective. This high power, frequency-selectable injection unit is unmatched in its ability to enable testing of live, energised stations under the most arduous conditions, without having to remove any earthing interconnections.

- Modern, efficient inverter technology
- GPS referenced frequency and phase control
- Highly stable for reliable test results
- Stations remain live - no deenergisation required
- Earthing system remains intact during testing
- Unsurpassed noise immunity





The AX1 provides highly stable frequency-tunable current for testing EPR, touch/step voltages, grid resistance and fault current distribution.

It provides the optimum balance of high power, low weight, durability and portability. It is easy to use and is suitable for testing a range of assets, including substation/switchyard earthing systems, transmission and distribution lines.

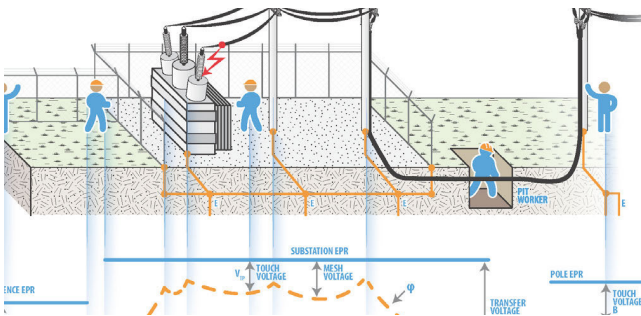
It also enables interference testing and measurement of induced hazards on third-party assets such as railways, pipelines and telecommunications assets.

Overview

Use the tools that the experts use!

The AX1 is the culmination of two decades of technical development and field testing by our own specialist earth testing engineers. We develop equipment like the AX1 when there is no other suitable product commercially available and we make sure it works under all common testing scenarios. Consequently, the AX1 stands alone as the premier instrument for professional earthing system performance testing.

Using the AX1, testing of earthing systems can be carried out without having to take the asset offline or disconnect any earthing system connections. Testing earth grids and earthing systems is now faster and more accurate than ever before.



Performance Measurement

The AX1 is designed to be used in conjunction with Safeearth's MI3 frequency-tunable voltage and current meter, for measuring system performance. GPS-referenced phase synchronisation allows for unprecedented insight into current distribution and system performance through vector (magnitude and angle) measurement of every voltage and current.



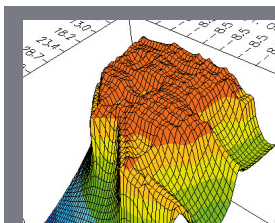
Features

The AX1 overcomes the limitations common among other earthing test systems:

- High power (1000VA) to enable testing of a broad range of installations, without disconnecting earth wires or cable screens
- Single package for easy transport and handling
- High immunity to induced current in test circuit
- Fast, simple user interface
- Purpose built for earthing injection testing
- GPS-referenced frequency and phase control
- Sinusoidal current waveform at/near power system frequencies for accurate impedance and current distribution measurements
- Enables accurate determination of grid resistance in interconnected systems

Key Specifications

Dimensions	500 × 400 × 195mm
Weight	21kg
Power Supply	100 – 250 Vac (50/60Hz)
Max. Input Power	1200VA
Max. Output Power	1000VA
Output Voltage	0 – 250Vac
Output Current	0 – 32Aac
Output Frequency	40 – 70Hz
Phase Control	GPS referenced



Injection testing is the only way to fully assess the suitability and effectiveness of an earthing system.

Don't just model it. Test it!

AX1010E

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