



Cable & Harness Electrical Interconnect Test Solutions

MPT Series: a complete test solution, optimised to save time and reduce costs.

Nexeya Canada is a leader in the electrical interconnect test industry, delivering reliable, scalable and effective test solutions for rolling stock manufacturing and maintenance for over 30 years. Our consultative approach to providing test solutions and the flexibility of these systems has made Nexeya the first choice for many world-class rolling stock manufacturers.

Nexeya Canada's MPT Series Testers are multi-point test systems capable of distributing high-voltage expansion to over 20,000+ test points. Distributed systems spread connection test points in remote switching units (RSUs) daisy chained up to 50 metres, in multiple directions, from the main unit. This enables operators to place test points as close as possible to connection points within the product being tested, while reducing the number of cable runs

and increasing operator ergonomics and test set-up/tear down; **saving labour, time and cost.**

Supporting the MPT's ability to optimise rolling stock testing is the 'mix and match' capability of test modules. Different voltage modules can be placed within the same test cabinet / RSU in order to optimise testing, increase point coverage and number of points to be tested while **reducing test system size and cost.**

Further cost reduction is achieved through the use of **universal connection points** in the MPT Series which reduce adapter cable complexity and mix. These connections are industry standard connectors that are robust and easy to connect and disconnect.

Rail-specific test algorithms dramatically reduce the number of test cycles required for long high-voltage dwell times. Test thousands of wires in a fraction of the number of cycles to **save test and trouble-shooting time** and be guaranteed a complete test.

The standard Nexeya MPT-ACS is a high-power AC voltage source that enables users to test very large groups of long harnesses. Standard AC Hipots do not have the same power behind them and large classes of wiring in the vehicle need to be tested in smaller groups. **The MPT-ACS lets you test your entire class of wires against the chassis of the vehicle in a single test cycle.**

The multi-lingual browser based operator environment comes equipped with powerful debugging tools to **quickly find faults**. Our debugging tool allows the operator to pause the test on a fault, correct the defect and continue testing from the last saved 'passed' point, **saving time and avoiding unnecessarily repeating tests.**

Save time by testing your product even before it is complete, e.g. if you have a partially built harness or missing connectors in your vehicle. Our software lets you select which connectors are missing and perform a complete test on the already finished elements so that you can get a jump on solving issues now.

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Rolling Stock Testing

Nexeya Canada's MPT Series Testers' flexibility lets you take your test coverage further and add energisation to your test sequence. With the MPTs true multi-bus architecture you can energise and measure simultaneously from almost any point in the test system. No specialty cards needed to test relays, contactors, or lamps in your product.

With the combination of flexibility, scalability, safety and convenience the MPT Series Testers technically out-match competitors' offerings and bring powerful time saving tools to your production environment.

Features and Functions: Delivering Value

Test Optimisation and Time Saving Features

Test Re-engage

Saves time by enabling the operator to pause the test and troubleshoot an error, re-engaging the test at the

point of repair and eliminating the need to repeat the already verified test sequences.

Mass Hi-Pot

Provides complete test coverage in a fraction of the time required by conventional linear test methods.

Measure & Energise

The M&E feature is available for all test points reducing overall test times.

Activation & Energisation

Enables the energisation of functions during the test sequence, saving time and enhancing troubleshooting efforts.

SuperTrace

Colour-coded connectivity-mapping optimising troubleshooting.

Scan Testing

High-frequency test intervals ideal for high-stress, vibration and thermal cycle testing.

Testimonials

Electrical Engineering | MARTA
Metropolitan Atlanta Rapid Transit
Authority:

"With the challenge of establishing a test area dedicated to our electric couplers, we did not want to use the current methodologies, we approached Nexeya for a novel solution. Nexeya presented a solution based on their proven EZX-1510 product line.

"The team was incredibly easy to work with, assisting us with the system selection and modification. All adapter requirements were based on a standard offering which provided custom configurations at low prices. We are very impressed with the speed and ease of use of the equipment, worked wonderfully out of the box."

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For more than 30 years,
Nexeya has been delivering
electrical interconnect test solutions
and integration test benches,
helping our customers
**deliver safety, efficiency
and speed** to their design,
manufacturing and
service operations.

A high-speed train, primarily green and black, is shown in motion on a track. The train is angled towards the viewer, and the background is blurred to convey speed. A large green diagonal graphic element cuts across the image from the top left towards the center right.

**Electrical Interconnect Test Solutions
Integration Test Benches**