

AUTOMATED CAR TEST SYSTEM (ACTS)



PRODUCT OVERVIEW

The Ekyrail Automated Car Test System (ACTS) provides a fast and reliable solution to verify the electrical integrity of passenger railcars and locomotive systems. Designed for railway maintenance shops, it automatically performs comprehensive electrical testing from a single connection point.

The system performs complete electrical verification including continuity testing, pin-to-pin isolation, pin-to-ground isolation, and pin mapping to ensure the integrity of wiring throughout the car.

Using a single connection, technicians can quickly test an entire railcar without complex setup. The integrated computer and touchscreen interface guide the operator through the testing process and clearly display PASS / FAIL results.

The ACTS also supports HEP (Head End Power) testing, allowing verification of both control and power circuits. Test results can be saved, printed, or exported for reporting and maintenance records.

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SHOP EQUIPMENT

Product	
Product	Automated Car Test System (ACTS)
Application	Designed for railway maintenance shops
Functional capabilities	
Testing method	Tests performed from a single connection point
Automated sequences	Continuity testing Pin-to-pin isolation Pin-to-ground isolation Pin mapping verification
Compatibility	Compatible with 27-pin communication and MU circuits
HEP testing	Integrated HEP testing capability
Interface	Touchscreen interface with integrated PC
Diagnostics	Real-time PASS / FAIL display
Data management	Test reports can be saved, printed, or exported
Electrical characteristics	
Input power	110–120 VAC
Continuity test	12 VDC @ 150 mA
Isolation test voltage	250 VDC $\pm 5\%$ @ 20 mA
Environment	
Operating temperature	0°C to 40°C



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