



ECI 911YT Relay Tester User Manual

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911YT User Manual

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1.0	6/1/2018	Updated Manual Initial Release
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1 Introduction

The ECI 911YT portable relay tester is designed to test all the common plug-in relays used on American elevators. There are six coil voltages available along with eight relay base arrangements. It has been designed expressly for the elevator industry for use by individuals with expertise in the field. It's state of the art solid state design should provide many years of dependable operation with care given to any delicate instrumentation.

2 Specifications

- Input Voltage: 120VAC (2A GMA fuse)
- Relay Types
 - P&B K10 – 2PDT (or equiv.)
 - P&B KUP – 3PDT (or equiv.)
 - P&B KHU – 4PDT (or equiv.)
 - P&B R10 – 4PDT and 6PDT Latching or non-latching (or equiv.)
 - IBM – 4PDT, 6PDT, 12PDT Latching or non-latching
- Coil Voltages
 - 12VDC
 - 24VDC
 - 24VAC
 - 48VDC
 - 110VDC
 - 120VAC

3 Operation



Caution: Some relay bases are designed with exposed conductors that will have the selected voltage present when COIL switch is in ON position.

1. With all switches in OFF positions, connect tester to 120VAC power source.
2. Select the proper COIL VOLTAGE for the relay to be tested.



CAUTION: Selecting an AC voltage for a DC relay may damage relay coil.

3. Set the range switch to desired sensitivity.
 - a. LO is 5 OHM for contacts in input positions on processor controllers.
 - b. MID is 15 OHMs for contacts in logic position on all controllers.
 - c. HI is 30 OHMs for contacts in light drivers on all controllers.
4. Insert the relay into the correct base then apply power to the tester.



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- a. GREEN power LED should light
5. Locate the LEDs associated with the relay under test. One LED for each contact.
 - a. Green LEDs indicate contact resistance is less than the selected range.



NOTE: If all LEDs remain green the relay did not energize and the COIL FUSE should be checked.

- b. RED LED indicates NORMALLY OPEN contacts are shorted.
- c. RED/GREEN LED indicates the N.O. and N.C. contacts are shorted.
6. Flip the COIL switch up to energize the relay.
 - a. RED LED indicates each N.O. contact resistance is less than the selected range.
 - b. A GREEN LED indicates the contact did not switch from the N.C. position.
7. For latching relays all contact LEDs should remain RED when the coil switch is released to the center position.
8. To release a latching relay, push the COIL switch down.
9. Turn off power switch and remove relay.