

# ProTran1

## Instruction Manual

ProTR™

Third Rail Voltage Awareness Device

MODEL 101601-3



The ProTran1 ProTR™ was designed to allow transit workers the ability to safely verify if the presence of voltage is on the Third Rail line. The unit indicates voltage from 50 to 750 VDC Nominal 1000VDC Max. The unit also has several redundancies built in such as a digital meter, alarm and a fuse to protect the unit in the case of voltage surges.

**Warning:** This device is designed to use in conjunction with very high voltage applications. Improper use is dangerous and could result in injury and/or death. Always wear proper gloves and eye protection prior to use.

### Operation

The following steps must be followed to ensure the proper use of the device:

- 1 – Place grounding magnet (or clamp) on running rail or ground rail.
- 2 – Place the positive magnet (or clamp) on the Live Rail or Third Rail
- 3 – When removing ProTR™ from Third Rail remove positive magnet from third rail before removing grounding magnet from running rail or ground rail.

### Safety Notes

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1. Always inspect the unit prior to use. Check the integrity of the wire insulation for nicks or cuts, inspect the unit for any loose parts etc. If any problems are discovered have the unit repaired immediately.
2. Always ensure that the unit is in proper working condition before attempting to use it in the field. Do this by testing it with a known LIVE power source at the rated maximum voltage of the unit. We recommend the ProPower™ transformer to accomplish this essential test.
3. Always place the magnetized ground contact\* on the running rail before attaching the magnetized positive contact to the third rail.
4. Always remove the magnetized positive contact from the third rail before removing the magnetized ground contact from the running rail.
5. Always remove the hot alligator clip contact from the third rail before removing the ground alligator clip contact from the running rail.
6. To remove the magnetized contacts, gently slide it off the appropriate rail. Do not try to yank the magnet loose.
7. Always wear safety gloves and glasses/goggles when using this unit in the field.
8. This unit is equipped with a fuse. In every case, when testing for the presence of power you must first observe the lights and the horns. Even if the lights and horns are not come on, you must then activate the meter (depress the button on the base of the unit) and observe if the meter (which is independent of the fuse) indicates the presence of power. If the meter indicates power the unit has blown the fuse and must be returned to ProTran1 for repair.

*\*N.B. Alligator clip contacts can be used in place of Magnetic contacts.*

Legislation requires that all protective equipment be tested at least once a year for compliance with ProTran1 specifications and to industry standards. Ensuring your safety equipment meets or exceeds the highest standards reduces the costs of lost-time accidents. ProTran1's independent testing facilities are fully industry compliant.

Refer to the "Service and Support" for Service and Maintenance contracts ProTran1 offers to the customers. We strongly recommend this service to all our customers.

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