

Instructions for Knopp 4E2-1 Voltage Tester

Description:

The Model 4E2-1 Voltage Tester is especially designed to detect electrical potential between the third rail and ground rail on high voltage electrified transit systems. For this application the tester has ample "reach" as it can span a distance of four feet. The instrument housing itself, including its hand-grip and the prod which is applied to the third rail, has a length of twenty inches.

The tester can be used on either AC or DC over a wide range of voltage up to 1500 volts. A dual neon lamp principle provides double safety protection to the operator—two independent circuits indicate the presence of voltage. Another safety feature is the limitation of current through the test circuit to less than 3 milliamperes at 1500 volts.

The neon indicating lamps are mounted in special shielded cavities within the instrument housing so that the neon glow indication can be unmistakably seen even under the most adverse conditions of bright, direct sunlight on the instrument during tests.

The prod handle and the tester housing, with rubber hand guard, are made of moisture- and oil-resistant laminated phenolic. There are no exposed metal parts other than the two stainless-steel prod tips.

Instructions:

NOTE: ALWAYS TEST ON A KNOWN LIVE CIRCUIT PRIOR TO EACH USE.

1. Grasp large probe handle immediately behind the rubber hand guard ring located approximately 4-1/2" from rear end of handle. Hold handle so that neon bulbs can be seen through viewing ports in handle.
2. Grasp small diameter probe handle immediately in front of rubber boot located at the rear end of the handle.
3. Move small diameter handle so as to make contact between the small probe tip and ground.
4. Move large handle so as to make contact between the metal probe and the high voltage line.
5. Observe neon bulbs. If lit, the circuit is energized.
6. **CAUTION: NEVER TOUCH METAL PROD TIPS DURING USE OF THE TESTER.**

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