



INTEGRATED HARDWARE/SOFTWARE
& TRAINING SOLUTIONS FOR THE
CATHODIC PROTECTION INDUSTRY

Underground Insulation Checker – Model 702

Casing Testing Instructions

To Test D-Cell Batteries:

Flip the switch up to the Charge position

- If the needle is positioned above “30”, the batteries are good
- If meter reads less than “30”, replace the D-Cell batteries

Setup Meter for Test:

Flip the switch down to the Test position and zero the meter with the Knob (if the meter will not zero, replace the AA batteries)

Once the meter is set on Zero, leave knob set and flip the switch to the Off position.

Connect the leads, black to the Pipe and red to the Casing.

Testing Process:

Flip the switch up to the Charge position for at least 30 seconds (large pipes may need to charge for a longer time)

After 30 seconds, immediately flip the switch down to the Test position.

Results:

- If the needle drops to Zero, the casing is shorted (metallic short).

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- If the needle pegs out (jumps hard to the right), the casing is clear.
- If the needle reads more than zero but less than “50”, the casing is electrolytically shorted. (You may purposely short the casing to see if the needle goes to Zero to confirm your results)

Technical Specifications for Model 601 and Model 702 Insulation Checkers

Model 601 – For Above Ground Insulators

- Enclosure: Heavy duty electronic instrument enclosure (black in color) with an average wall thickness of 0.13” (3.3mm). Molded in flame retardant ABS plastic. Designed to meet IP54 standard.
- Power Source: Two C size alkaline batteries
- Operating Temperature Range (alkaline battery limited): -20°C to +55°C
- Recommended Storage Temperature Range (alkaline battery limited): -20°C to +35°C
- Dimensions: 8”L x 5”W x 3.25”H [20.3cm x 12.7cm x 8.25cm]
- Weight: 1.54lbs [0.7kg]

Model 702 – For Below Grade (Buried) Insulators

- Enclosure: Molded Glossy Black Phenolic MIL-M-14, CFG. Designed to meet IP54 standard.
- Power Source: Two D size alkaline batteries and two AA batteries.
- Operating Temperature Range (alkaline battery limited): -20°C to +55°C
- Recommended Storage Temperature Range (alkaline battery limited): -20°C to +35°C
- Output Voltage: 1.5V DC
- Dimensions: 7”L x 5.25”W x 4”H [17.8cm x 13.3cm x 10.16cm]
- Weight: 3lbs [1.36kg]