

Ground Testing

Educational Training Equipment for the 21st Century

Bulletin 553-1G

H-MVO-60HZ-IT Impedance Tester Option

Purpose

The Hampden **Model MVO-60HZ-IT** Impedance Tester provides a simple and convenient alternate method of grounding system testing as recommended in paragraph 3.3.70 of *NFPA 99 Health Care Facilities Code Handbook – 2021, Twelfth Edition*.

The impedance measurement shall be the ratio of the voltage (either 60Hz or DC), developed between the point under test and a reference point, to the current applied between these two points.



Model MVO-1-PB shown with
Model MVO-60HZ-IT Impedance Tester
Dimensions: 5" W x 4" L x 3" H (overall)
Weight: 2 lbs.



Hampden Model MVO-60HZ-IT Impedance Tester

Description

The Hampden **Model MVO-60HZ-IT** Impedance Tester is designed to couple to the Hampden **Model MVO-1-PB** Ground Integrity Tester, which is designed for voltage measurements and existing construction impedance measurements.

The **Model MVO-60HZ-IT** connects to the **MVO-1-PB** using hook on copper straps under the binding posts. The **MVO-1-PB** cord set is then connected to the **MVO-60HZ-IT** impedance tester. Calibration instructions are permanently attached to the bottom of the unit.

The **Model MVO-60HZ-IT** provides a 60 hertz signal, through a step down isolating transformer and associated circuitry at the test leads, which can be applied to the ground circuit being tested.

The impedance of the circuit being tested is read directly on the ohms range of the integral meter of the **MVO-1-PB** Ground Integrity Tester. For the test, the **MVO-60HZ-IT** supplies less than 20 millivolts across the ground circuit at 0.1 ohm read on the **MVO-1-PB** ohms scale. The 60 hertz open circuit voltage of the **MVO-60HZ-IT** is less than 135 millivolts.

All Hampden units are available for operation at any voltage or frequency

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