

Application: Calibration Dividers – High Voltage AC & DC

Application Description

The test equipment like that made by High Voltage, Inc. and most other equipment requiring a measurement of some kind being made by the instrument and displayed on some type of meter or display screen must be calibrated periodically to insure the accuracy of the readings. High Voltage test equipment like that made by HVI is usually required to be calibrated every 12 months. Some applications require it more often. To perform the calibration, a high voltage divider, usually designed with many capacitor/resistor cells in series to divide the voltage down from maximum to something near ground potential, where it is connected to a meter, is used. The calibration dividers themselves must be calibrated once a year to insure their accuracy. This is normally done by some nationally recognized and certified calibration lab, like the National Institute of Standards and Technology (NIST) for the United States. Other countries have their own national calibration standards and certification organizations. These are often called Metrology Labs. High voltage calibration dividers are available from several companies, usually those that also make the HV equipment requiring their use. High Voltage, Inc. is one such company. These HV dividers are also used as a way to measure the voltage of a high voltage source, permitting the “low end” of the divider, or its output, to be connected to a meter of some sort to make the measurements.

HVI Product Solutions

High Voltage, Inc. produces two HV Dividers, both capable of reading AC and DC voltage. Both are supplied as dividers only; no measurement instrument is supplied. They are designed with output signals that can be connected to nearly all conventional multimeters. The brochures of both models show these specifications and others. Here they are:

DVR-150 *DVR Series*
0 – 150 kV AC or DC



Transport case is optional.

DVR-300 *DVR Series*
0 – 300 kV AC or DC



No transport case is available for the DVR-300.