



**HVI - The World's Source for  
High Voltage Test Equipment**

Advanced test equipment for high voltage proof and preventive maintenance testing of electrical apparatus hvinc.com

## **Safety While Testing with High Voltage**

Working with high voltage can be dangerous and should be performed by trained personnel only. At HVI we are unable to supervise your operators or determine their ability to use our products safely. We can however build in helpful safety features, make our products intuitive and easy to use, and provide documentation that alerts users to potential dangers. We are also available for real-time consultation when planning or performing testing or any time questions arise.

The following product features help to enhance safe operation

- ⚡ **Zero-start interlock.** Most models include a feature that requires the user to return the voltage control knob to the zero position before it is possible to energize the high voltage output.
- ⚡ **External interlock feature.** Standard products typically include a panel-mounted socket and corresponding two-prong plug that is shorted beneath its plastic cap. This plug can be removed and placed in the operator's pocket, effectively disabling the set while making the high voltage connection or leaving the set unattended, etc. The plug can be modified, removing the short and connecting any number of series-connected switches that could be activated by a safety cage door, gate switch, or an emergency-off switch located prominently in your test area. We also offer hand and foot safety switches that have the same type of plug and connect to the panel socket. These "dead-man" switches need to be depressed before and during the high voltage test. Releasing the switch or opening the test cage door during the test would have the same effect as hitting "HV Off". Custom and larger products may have this feature accessed from a two-position terminal strip in the same area where input power is connected.
- ⚡ Some products include a **shielded output cable**. Any cable can eventually fail from damage or wear. If the output cable were to fail it would arc to its own cable shield and trip out the set.
- ⚡ Larger and custom models can incorporate **flashing red lights and emergency-off or key switches**.
- ⚡ We also provide **product training videos** on our website and are happy to help you by phone, e-mail or video conference. Our goal is to help you fully understand the features and operation of your electrical test product. More specific information on test and safety procedures at your facility may be beyond our control or scope.

