

7751
7752

High Voltage Source/Switch Module Low Voltage, Current-Source-Only Source/Switch Module



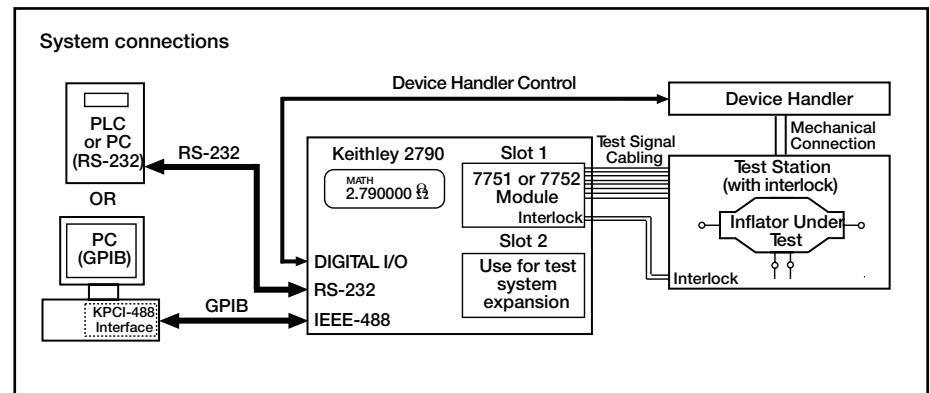
- Sourcing and switching for airbag inflator testing with the Model 2790
- Programmable 0-50mA current source
- Programmable 50-500V voltage source (7751 only)
- Built-in I/V converter (7751 only)
- Low energy sources, a hardware source interlock, and programmable shunts help prevent accidental detonations

The Model 7751 and 7752 Source/Switch Modules are designed exclusively for use in the Model 2790 SourceMeter® Switch System for electrical checks of airbag inflators and a variety of other automotive electrical test applications. These modules provide the programmable high voltage and low current sourcing, plus multichannel switching support required to measure insulation resistance and conductor continuity in these applications.

The Model 7751 module includes programmable DC voltage (50–500V) and current (0–50mA) sources, as well as relay switching. A built-in current-to-voltage converter on this module is used with the voltage source to measure the insulation resistance. It can also be used to measure currents from 0–50 μ A. The constant current source is useful for measuring the resistance of bridgewires and shunt bars. Four banks of two-pole relays provide a sufficient number of terminals to connect two single inflator units or one dual inflator unit to the Model 2790 mainframe for testing. The mainframe will accommodate two plug-in modules, so a single Model 2790 system can be connected to two test stands and be used to test two dual inflator airbag modules. Parallel testing in the form of “voltage soak with one card, measure with the other” is possible for both single and double test stand configurations. The Model 7751’s switch matrix simplifies implementing contact verification tests and allows the Model 2790 to verify test voltages and currents for increased measurement reliability.

The Model 7752 module is identical to the Model 7751, except that it does not include the high voltage source and current-to-voltage converter.

Safety related design features that provide added protection against accidental detonation include low energy sources, a hardware source interlock, and programmable shunts that can be used in conjunction with an inflator’s shunt bar.



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