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Data Sheet

August 5, 2026

KEITHLEY

Keithley 7753 High Volt Source Switch Module

Keithley 7753 High Volt Source Switch Module The Keithley 7753 is a high-voltage source/switch module for the Model 2790 SourceMeter Switch System. Includes programmable DC voltage source 50–500 V, 0–50 mA current source, I/V converter for insulation resistance, and four banks of two-pole relays. Versus 7751, the 7753 high-ohms measurement floor is 1 M Ω (7751 is 10 M Ω); current-measure range 0–500 μ A (vs 0–50 μ A on 7751). Airbag inflator insulation and continuity testing; automotive electrical hipot/continuity with 2790; dual-module parallel soak/measure. The Keithley 7753 is a high-voltage source/switch module for the Model 2790 SourceMeter Switch System. Includes programmable DC voltage source 50–500 V, 0–50 mA current source, I/V converter for insulation resistance, and four banks of two-pole relays. Versus 7751, the 7753 high-ohms measurement floor is 1 M Ω (7751 is 10 M Ω); current-measure range 0–500 μ A (vs 0–50 μ A on 7751). Airbag inflator insulation and continuity testing; automotive electrical hipot/continuity with 2790; dual-module parallel soak/measure.



MODEL

Keithley 7753

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

7753

LISTING

<https://aumictechlabs.com/products/7753-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 7753 High Voltage Source Switch Module is a specialized instrument module engineered for integration into the Keithley Model 2790 SourceMeter Switch System. It delivers programmable DC voltage sourcing from 50V to 500V with 100mV resolution and current sourcing

from 0 to 50mA, paired with multichannel relay switching for precision high-voltage test applications. The module incorporates a built-in I/V converter for insulation resistance measurements, latching electromechanical relays with sub-3ms actuation, and a four-bank switching matrix configured to accommodate single or dual inflator units. Hardware interlocks, low-energy sources, and programmable shunts provide essential safety redundancy in high-risk test environments.

Technical Specifications

Voltage Source: 50V to 500V programmable range, 100mV resolution; 0.5% + 0.13V accuracy (2-year specification)

Current Source: 0–50mA programmable; 0.5% (of reading) + 60nA accuracy; <1mV voltage burden

Current Measurement Input Range: 0–500µA

Insulation Resistance Measurement: 1 MΩ minimum measurable ohm level

Relay Switching: Four banks of two-pole latching electromechanical relays; <3ms actuation time; 10^6 operations at maximum source level; $>10^8$ operations cold switching

Earth Isolation: 500V_{peak}, $>10\text{G}\Omega$ and $<150\text{pF}$ (any terminal to chassis)

Temperature Coefficient (Current Source): (0.02% + 0.5nA)/°C (0–18°C & 28–40°C)

Short Circuit Current: V-source: –500µA maximum; I-source: <1mA typical

Key Features

- Programmable high-voltage and low-current sourcing with independent control
- Built-in current-to-voltage converter for efficient insulation resistance testing
- Four-bank relay matrix with integrated HIPOT short for dielectric strength assessment
- Contact verification test simplification through relay topology
- Dual-inflator or single-inflator unit connectivity
- Hardware source interlock and programmable shunt protection

Typical Applications

- Automotive airbag inflator testing and characterization
- Automotive electrical system validation and continuity verification
- Insulation resistance and dielectric strength measurements
- Multi-unit inflator qualification in manufacturing test environments

Compatibility & Integration

The 7753 module is engineered exclusively for use with the Keithley Model 2790 SourceMeter Switch System mainframe and integrates into the 2790's test architecture for voltage and current measurement verification.

Features & description

From manufacturer datasheet

Features

- Host: Keithley 2790 only
- V-source: 50–500 V; 100 mV programming resolution; accuracy 0.5% + 0.13 V (2-year)
- V-source current: 500 μ A max for rated accuracy (<1 mA typical into short); safety limit 1 mA
- Settling: rise 50→500 V $\leq$ 250 ms; fall 500→50 V $\leq$ 1000 ms (0.1% final)
- Current source: 0–50 mA for low-resistance/continuity
- Current measure: 0–500 μ A; accuracy 0.5% + 60 nA (2-year)
- High ohms floor: 1 M Ω class
- Four banks of two-pole switching; cable discharge shunt on designated channel

7753 Characteristics / Specifications

PARAMETER	VALUE
Model	7753
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	High-Voltage Source/Switch Module (2790)
Family	7751/7752/7753
Alias	7753; Keithley 7753 Voltage / Current 50–500 V; 0–50 mA I-source; 0–500 μ A I-measure Operational Notes Prefer Keithley 7751/52/53 datasheet and SPEC-2790E. 7752 is current-only sibling.
Host	Keithley 2790 only
V-source	50–500 V; 100 mV programming resolution; accuracy 0.5% + 0.13 V (2-year)
V-source current	500 μ A max for rated accuracy (<1 mA typical into short); safety limit 1 mA
Settling	rise 50→500 V $\leq$ 250 ms; fall 500→50 V $\leq$ 1000 ms (0.1% final)
Current source	0–50 mA for low-resistance/continuity
Current measure	0–500 μ A; accuracy 0.5% + 60 nA (2-year)
High ohms floor	1 M Ω class

7753 Specifications

PARAMETER	VALUE
Keithley 7753 High Volt Source Switch Module	Overview
Applications	Airbag inflator insulation and continuity testing; automotive electrical hipot/continuity with 2790; dual-module parallel soak/measure.
Key Features	- Host: Keithley 2790 only
Technical Specifications	Model: 7753
Voltage / Current	50–500 V; 0–50 mA I-source; 0–500 μ A I-measure
Operational Notes	Prefer Keithley 7751/52/53 datasheet and SPEC-2790E. 7752 is current-only sibling.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	7753
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	High-Voltage Source/Switch Module (2790)
Family	7751/7752/7753
Alias	7753; Keithley 7753

Voltage / Current

50-500 V; 0-50 mA I-source; 0-500 µA I-measure

Operational Notes

Prefer Keithley 7751/52/53 datasheet and SPEC-2790E. 7752 is current-only sibling.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.