

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 2, 2026

KEITHLEY

Keithley 2790-HH J Sourcemeter Switch System

Keithley Embedded Test Systems. Current: 50 μ A at rated accuracy, Voltage: 5.5V $\pm$ 10%,
Current: <



MODEL

**Keithley 2790-HH
J**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

2790-HH J

LISTING

[https://aumictechlabs.c
om/products/2790-hh-j
-2/](https://aumictechlabs.com/products/2790-hh-j-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 2790-HH SourceMeter Switch System combines high-voltage sourcing, precision measurement, and multi-channel switching in a compact modular instrument. Engineered for automated functional testing, it delivers programmable voltage (50V to 500V) and current (0 to 50mA) sourcing with integrated DMM capability and switching matrices supporting up to 40 channels. Ideal for automotive ignition systems, connector validation, and complex harness characterization where simultaneous source and measure operations are required. Technical Specifications Sourcing Performance Voltage Source: 50V to 500V programmable, 100mV resolution, 0.5% + 0.1V accuracy (2-year), 250ms settling time (50V to 500V step) Current Source: 0 to 50mA programmable, 10 μ A resolution, 0.06% + 10 μ A accuracy (2-year), 1ms settling time Maximum Output Current: 50 μ A at rated accuracy; <1mA typical short-circuit; 1mA safety limit (impedance-limited) Compliance Voltage: 5.5V $\pm$ 10% Temperature Coefficient: Voltage (0.001% + 0.005V)/ $^{\circ}$ C; Current specified across 0–18 $^{\circ}$ C and 28–40 $^{\circ}$ C Dry Circuit Clamp: 20mV $\pm$ 10%, source current $\leq$ 1mA Measurement Capabilities 6-1/2 digit DMM with dual resistance

measurement methods: constant-current for $10\text{G}\Omega$ // $<400\text{pF}$ or $10\text{M}\Omega \pm 1\%$ (100mV–10V ranges); $10\text{M}\Omega \pm 1\%$ (100V, 1000V ranges) Input Bias Current: $<100\text{pA}$ at 23°C A-D Linearity: 2.0 ppm reading + 1.0 ppm range Input Protection: 1000V front, 300V rear (7702 card) Switching Architecture Up to 40 channels maximum Supported modules: 7702 (40-ch general-purpose multiplexer), 7751 (high-voltage source/switch), 7752 (low-voltage current-source-only), 7753 ($1\text{M}\Omega$ high-voltage source/switch) Physical & Environmental Mainframe: 89mm H $\times$ 213mm W $\times$ 370mm D or 104mm H $\times$ 238mm W $\times$ 370mm D Supply: 100/120/220/240V $\pm 10\%$, -5%; 50/60Hz Lithium battery-backed memory (3-year retention at 23°C) 2-year calibration cycle

Key Features

Modular switching matrix accommodates single or dual test stands Impedance-limited safety design protects DUTs in dry-circuit applications Selectable input impedance for low-noise voltage measurement Mixed sourcing modes enable device and signal testing in one platform

Typical Applications

Automotive airbag inflator and seatbelt pre-tensioner ignition testing Wiring harness and connector functional validation High-voltage component characterization and burn-in screening

Compatibility & Integration

Accepts 7700-series switching cards for flexible channel configuration and mixed measurement/sourcing requirements across automotive, industrial controls, and component reliability workflows.

Features & description

From manufacturer datasheet

Features

- 2790-HH dual 7751-module configuration
- 6-digit SourceMeter mainframe with two plug-in module slots
- Two 7751 high-voltage source/switch modules installed
- Programmable 50 V to 500 V voltage source for HIPOT testing
- Programmable 0 mA to 50 mA current source for bridgewire/shunt measurement
- Parallel dual-inflator test throughput
- 4-wire contact check through internal DMM
- GPIB remote interface (IEEE-488)
- Supports soak-and-test parallel workflows

2790HHJ Characteristics / Specifications

PARAMETER	VALUE
Model	2790-HH (2790-HHJline variant in some catalogs)
Manufacturer	Keithley (Tektronix/Keithley)
Instrument Type	SourceMeter Switch System (configured)
Mainframe	Model 2790
Configuration	Two Model 7751 High Voltage Source/Switch Modules
Resolution	6-digit mainframe measurement
Module Slots	2 (both occupied by 7751 in standard 2790-HH) 7751 Voltage Source: 50 V to 500 V programmable (HIPOT) 7751 Current Source: 0 mA to 50 mA (bridgewire/shunt-bar test) 7751 Current Measure: 0 to 50 µA range
Switching	Four relay banks; 2-pole/4-pole matrix per 7751 module
Relay Actuation	less than 3 ms
Contact Life	greater than 10 ⁶ operations at max source level; greater than 10 ⁸ cold switching
Remote Interface	GPIB (IEEE-488)
Alternate Modules (mainframe)	7752, 7753, 7702 (7753 limited to one per system) Standard Operating Conditions Mainframe accuracy specifications typically 23°C ±5°C. Observe inflator test-station interlock requirements when using 7751/7753 high-voltage sources. External common-mode limit 42 V between any terminal and chassis on 7751 switching paths—do not apply external sources to module terminals.

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

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Instrument Type	SourceMeter Switch System (configured)
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7751 Voltage Source: 50 V to 500 V programmable (HIPOT)

7751 Current Source: 0 mA to 50 mA (bridgewire/shunt-bar test)

7751 Current Measure: 0 to 50 µA range

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Mainframe accuracy specifications typically 23°C ±5°C. Observe inflator test-station interlock requirements when using 7751/7753 high-voltage sources. External common-mode limit 42 V between any terminal and chassis on 7751 switching paths-do not apply external sources to module terminals.

Operational Notes

2790-H enables single-position inflator test with one 7751; 2790-HH adds second 7751 for parallel dual-inflator or soak-and-test efficiency. Catalog listings may show "2790-HH J" for J-line packaging-functionally the dual-7751 high-voltage inflator configuration. 7753 supports higher insulation-resistance ranges but only one 7753 may be installed per 2790. Refer to Keithley Model 2790 User's Manual Section 5 for inflator test procedures.

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.