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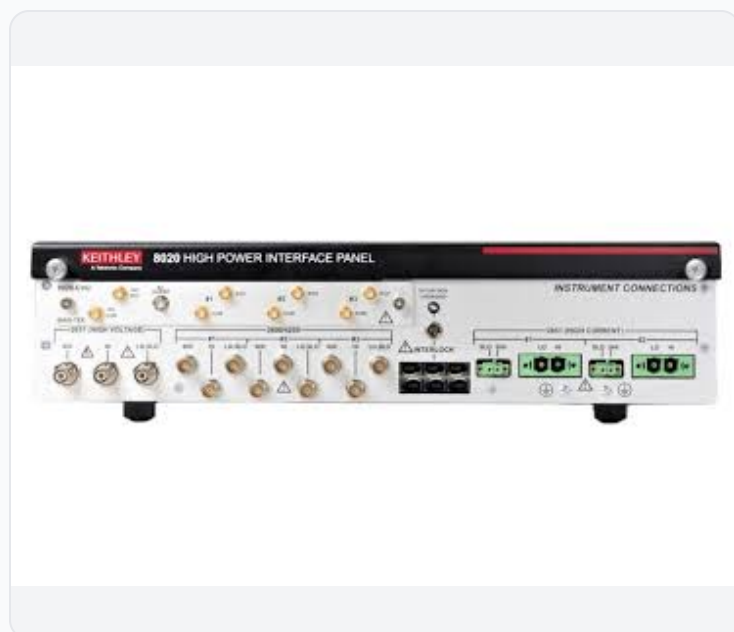
Data Sheet

August 12, 2026

KEITHLEY

Keithley 8020 High Power Interface Panel

The Model 8020 is a high-power interface panel between Keithley SourceMeter / Parametric Curve Tracer instruments and probe stations or custom fixtures. Six measurement pathways support 3 kV, 200 V, and 100 A class connections with configurable output connector cards and optional HV C-V bias tees. Instrument Type: High Power Interface Panel Specs from Keithley Model 8020 High Power Interface Panel manuals/datasheet. Confirm installed connector cards and bias-tee options on the unit.



MODEL

Keithley 8020

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8020

LISTING

<https://aumictechlabs.com/products/8020-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keithley 8020 High Power Interface Panel is a modular interface accessory that connects Keithley high-power SourceMeter instruments to semiconductor probe stations, test fixtures, and handlers. The panel simplifies wiring complexity in high-current and high-voltage test environments by providing six independently configurable measurement channels with connector flexibility and integrated device protection. Technical Specifications Measurement Channels High Voltage (HV) Channel: 3030 V DC maximum 200 V Channels (1-3): 202 V DC maximum with optional overcurrent protection Common LO Channel: 40 V DC maximum High Current Channel: 42 V DC maximum Current Handling I-V Mode HV Channel: 122 mA DC 200 V Channels (1-3): 1.515 A DC High Current Channel: 1.0 A Current Handling C-V Mode (with Model 8020-CVU Bias Tee option) HV Channel: 122 mA DC 200 V Channels (1-3): 1.515 A DC High Current Channel: 4.5 A

(Triaxial), 5 A (Banana), 40.4 A Pulsed Current Capabilities 200 V Channels (1–3): 10 A pulsed (all modes) High Current Channel: 10 A pulsed (I-V and C-V Hi I modes), 10 A (Triaxial) or 40 A (Banana) in C-V mode, 100 A in C-V mode AC + DC Coupler (Model 8020-CVU) Supports high-voltage C-V measurements on up to four device pins Available for first four channels HV Channel AC + DC capability: 100 μ A

Key Features Six measurement pathways with configurable connectors for diverse probe station architectures Built-in protection: resistive stability networks and overvoltage protection on 200 V channels Optional C-V bias tees extend measurement flexibility to capacitance–voltage characterization Supports both continuous DC and pulsed current operation across channels

Typical Applications Semiconductor device characterization at high voltage and current Probe station integration for parametric testing Handler-based production test environments Capacitance–voltage profiling on multi-pin devices

Compatibility & Integration Designed as an accessory for Keithley high-power SourceMeter instruments. The 8020-CVU C-V bias tee option extends measurement capability for impedance and C-V analysis.

Features & description

From manufacturer datasheet

Features

• Measurement pathways: 6 (HV, three 200 V, common LO, high-current) • HV channel: 3 kV class; Force/Sense HI/LO Keithley HV triaxial inputs • 200 V channels: overvoltage protection for SMU protection on DUT breakdown • High-current channel: 100 A class pathway • Configurable outputs (first 5 pathways): 8020-KHV / AHV / SHV / STC / BLK cards • Optional bias tees: up to 4 channels for HV C-V (8020-CVU class) • Stability/protection resistors included for install • Common LO: binding post and 3-lug triaxial; multi-8020 common LO linking • Interlock expansion cables supported • Recommended HV instrument: Model 2657A; also 4200-SCS / 2651A class kits

Applications

• High-power semiconductor probe-station interface • HV / HC SourceMeter to DUT interconnect • High-voltage C-V on up to 4 DUT pins with bias tees

8020 Characteristics / Specifications

PARAMETER	VALUE
Model	8020
Manufacturer	Keithley
Instrument Type	High Power Interface Panel
Alias	8020; Keithley 8020
Pathways	6
HV rating class	3 kV 200 V channels: 3
Bias tee pins max	4
Connector cards	configurable Notes Specs from Keithley Model 8020 High Power Interface Panel manuals/datasheet. Confirm installed connector cards and bias-tee options on the unit.
Measurement pathways	6 (HV, three 200 V, common LO, high-current)
HV channel	3 kV class; Force/Sense HI/LO Keithley HV triaxial inputs
200 V channels	overvoltage protection for SMU protection on DUT breakdown
High-current channel	100 A class pathway
Configurable outputs (first 5 pathways)	8020-KHV / AHV / SHV / STC / BLK cards
Optional bias tees	up to 4 channels for HV C-V (8020-CVU class)
Common LO	binding post and 3-lug triaxial; multi-8020 common LO linking
Recommended HV instrument	Model 2657A; also 4200-SCS / 2651A class kits

8020 Specifications

PARAMETER	VALUE
Keithley 8020 High Power Interface Panel	Overview
Key Features	- Measurement pathways: 6 (HV, three 200 V, common LO, high-current)
Technical Specifications	Model: 8020

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	8020
Manufacturer	Keithley
Instrument Type	High Power Interface Panel
Alias	8020; Keithley 8020

Pathways: 6

HV rating class: 3 kV

200 V channels: 3

High-current class: 100 A

Bias tee pins max: 4

Connector cards: configurable

Notes

Specs from Keithley Model 8020 High Power Interface Panel manuals/datasheet. Confirm installed connector cards and bias-tee options on the unit.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.