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Data Sheet

August 6, 2026

KEITHLEY

Keithley 263 Calibrator Source With GPIB Interface

Keithley 263 Calibrator Source With GPIB Interface The Keithley 263 is a precision calibrator/source for voltage, current, resistance (passive decades), and charge. Fully programmable over IEEE-488. Sources up to about ± 19.9995 V, ± 19.9995 mA, and charge to about ± 19.9995 μ C class. EXT INPUT allows switching an external source (up to ~ 200 V / 100 mA class) to the DUT without rewiring. Used to calibrate electrometers, picoammeters, and DMMs. Electrometer/picoammeter calibration; charge calibration; precision V/I source for metrology. The Keithley 263 is a precision calibrator/source for voltage, current, resistance (passive decades), and charge. Fully programmable over IEEE-488. Sources up to about ± 19.9995 V, ± 19.9995 mA, and charge to about ± 19.9995 μ C class. EXT INPUT allows switching an external source (up to ~ 200 V / 100 mA class) to the DUT without rewiring. Used to calibrate electrometers, picoammeters, and DMMs. Electrometer/picoammeter calibration; charge calibration; precision V/I source for metrology.

 Keithley 263 Calibrator Source With GPIB Interface

MODEL

Keithley 263

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

263

LISTING

<https://aumictechlabs.com/products/263-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keithley 263 Calibrator/Source with GPIB Interface is a precision secondary standard designed for calibrating electrometers, picoammeters, and other sensitive instruments requiring

accurate low-current and high-resistance measurements. It sources voltage (5 μV to 20 V), current (10 fA to 20 mA), resistance (1 Ω to 100 G Ω), and charge with both active and passive sourcing modes. Passive (V/R) mode minimizes offset errors when voltage burden is small or known; active sourcing delivers constant current output suitable for higher burden conditions.

Technical Specifications

Voltage Sourcing Built-in range: 5 μV to 20 V; external switching to 200 V Ranges: 200 mV, 2 V, 20 V with 1/10/100 steps Resolution: 5 μV (200 mV) to 500 μV (20 V) Accuracy (1 year): 0.0175% + 15–500 μV depending on range Temperature coefficient: 0.002 $^{\circ}\text{C}^{-1}$ (0–18 $^{\circ}\text{C}$, 28–50 $^{\circ}\text{C}$)

Current Sourcing Range: 10 fA to 20 mA (2 pA to 20 mA) Accuracy (1 year): 0.375% + 10 fA (2 pA) to 0.03% (20 mA active) Resolution: 0.00005 pA to 500 nA Response time: <0.5 s (2 nA–20 mA); 10^{14} Ω (2 nA range and above) Output capacitance: 12 V

Resistance Standards Range: 1 Ω to 100 G Ω ; nine precision resistors included Accuracy (1 year): 0.041% (1 k Ω) to 0.40% (100 G Ω) Zero offset: <1 Ω Maximum voltage (rated accuracy): 20 V (1 k Ω –10 G Ω), 100 V (100 G Ω)

General Display: 5½-digit LED with signed 2-digit alphanumeric exponent Warm-up: 1 hour to rated accuracy Operating environment: 0–50 $^{\circ}\text{C}$; <70% RH (non-condensing to 35 $^{\circ}\text{C}$) Power: 105–125 V or 210–250 V AC, 50–60 Hz, 25 VA max Dimensions: 127 × 216 × 359 mm (5 × 8½ × 14⅛ in); 3.6 kg (8.1 lbs)

Key Features GPIB interface for remote control and data logging Dual sourcing architecture (active/passive) minimizes measurement errors across current ranges Extremely low output capacitance enables high-impedance measurements Nine integrated resistance standards eliminate external calibration artifacts Fast settling time on mid-to-high current ranges

Typical Applications Electrometers and picoammeter calibration Precision current and voltage verification High-resistance measurement validation Charge measurement standards

Compatibility & Integration GPIB interface enables integration into automated test systems and calibration laboratories requiring traceable voltage, current, and resistance sources.

Features & description

From manufacturer datasheet

Features

- Functions: voltage, current, charge, passive resistance decades
- Voltage: to ± 19.9995 V (ranges including 200 mV–20 V class)
- Current: from pA decades to ± 19.9995 mA
- Charge: pC to μ C decades (to ± 19.9995 μ C class)
- Passive resistance standards including high-megohm decades ($G\Omega$ – $T\Omega$ class options)
- IEEE-488 fully programmable
- EXT INPUT switching for external source to DUT
- Zero button; keypad and adjust modes
- Display: 5½-digit numeric LEDs class
- Output: two-lug triaxial; binding posts for PREAMP OUT, COMMON, EXT INPUT
- Max common mode: 350 V peak class

263 Characteristics / Specifications

PARAMETER	VALUE
Model	263
Manufacturer	Keithley Instruments
Instrument Type	Calibrator / Source
Alias	263; Keithley 263 Source RangesVto ~±20 V; I to ~±20 mA; Q to ~±20 µC; plus passiveRdecades Operational Notes Prefer Keithley 263 instruction manual 263-901. Confirm installed resistance decades on unit.
Functions	voltage, current, charge, passive resistance decades
Voltage	to ±19.9995 V (ranges including 200 mV–20 V class)
Current	from pA decades to ±19.9995 mA
Charge	pC to µC decades (to ±19.9995 µC class)
Display	5½-digit numeric LEDs class
Output	two-lug triaxial; binding posts for PREAMP OUT, COMMON, EXT INPUT
Max common mode	350 V peak class

263 Specifications

PARAMETER	VALUE
Keithley 263 Calibrator Source With GPIB Interface	Overview
Applications	Electrometer/picoammeter calibration; charge calibration; precision V/I source for metrology.
Technical Specifications	Model: 263
Source Ranges	V to $\sim\pm 20$ V; I to $\sim\pm 20$ mA; Q to $\sim\pm 20$ μ C; plus passive R decades
Operational Notes	Prefer Keithley 263 instruction manual 263-901. Confirm installed resistance decades on unit.

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	263
Manufacturer	Keithley Instruments
Instrument Type	Calibrator / Source
Alias	263; Keithley 263

Source RangesVto $\sim\pm 20$ V; I to $\sim\pm 20$ mA; Q to $\sim\pm 20$ μ C; plus passiveRdecades

Operational Notes

Prefer Keithley 263 instruction manual 263-901. Confirm installed resistance decades on 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.