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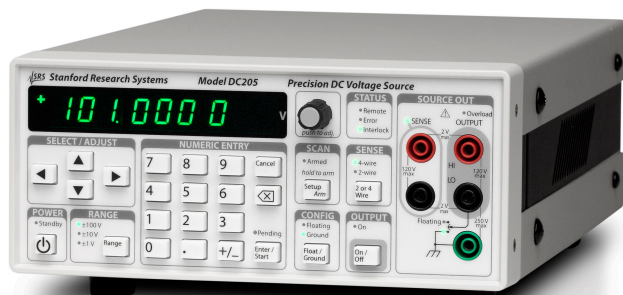
Data Sheet

August 3, 2026

STANFORD RESEARCH SYSTEMS

Stanford Research DC205 Voltage Source

Stanford Research Systems DC205 Voltage Source The DC205 provides a precision low-noise bipolar DC voltage source from Stanford Research Systems. Four-quadrant output covers ± 1 V, ± 10 V, and ± 100 V ranges with true 6-digit resolution down to $1 \mu\text{V}$ on the 1 V range and up to 50 mA (25 mA on the 100 V range). Remote sense (4-wire), floating mode to 250 V vs chassis, linear power supply design, and triggerable ramp/triangle scans are included. Interfaces: USB, RS-232, and fiber optic (via SX199 for GPIB/Ethernet isolation). The DC205 provides a precision low-noise bipolar DC voltage source from Stanford Research Systems. Four-quadrant output covers ± 1 V, ± 10 V, and ± 100 V ranges with true 6-digit resolution down to $1 \mu\text{V}$ on the 1 V range and up to 50 mA (25 mA on the 100 V range). Remote sense (4-wire), floating mode to 250 V vs chassis, linear power supply design, and triggerable ramp/triangle scans are included. Interfaces: USB, RS-232, and fiber optic (via SX199 for GPIB/Ethernet isolation). Precision bias for sensors and scientific experiments; low-noise voltage standards; automated voltage scans; calibration and characterization requiring μV -level stability.



MODEL

**Stanford Research
Systems DC205**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DC205

LISTING

<https://aumictechlabs.com/products/dc205-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Stanford Research Systems DC205 is a precision DC voltage source engineered for applications demanding ultra-stable, accurate voltage outputs with minimal noise. It delivers bipolar, four-quadrant operation across three voltage ranges (± 1 V, ± 10 V, ± 100 V) with true 6-digit

resolution down to 1 μV per step. Maximum output current is limited to 50 mA, making this instrument ideal for precision bias sourcing, threshold setting, metrology, calibration, and precision control systems rather than high-current applications.

Technical Specifications

Voltage Output: $\pm 1\text{ V}$, $\pm 10\text{ V}$, $\pm 100\text{ V}$ ranges; 1 μV resolution Accuracy: 0.0025% (1 year) Output Stability: ± 1 ppm over 24 hours; 1 ppm/ $^{\circ}\text{C}$ temperature stability Output Current: 50 mA maximum Noise Performance: $< 1\text{ }\mu\text{V}_{\text{rms}}$ (0.1–10 Hz, $\pm 1\text{ V}$ range); $12\text{ }\mu\text{V}_{\text{rms}}$ (10 Hz–100 kHz, $\pm 10\text{ V}$ range); 50 nV/ $\sqrt{\text{Hz}}$ broadband noise Output Impedance: $\sim 20\text{ }\Omega$ above 1 kHz Warm-up Time: 2 hours for specified stability Power Supply: Linear design to minimize high-frequency noise Power Consumption: 30 W

Key Features

4-wire remote sense mode corrects lead resistance and ensures accurate voltage at load; 2-wire operation selectable Grounded or floating output; floats up to 250 V relative to chassis ground in floating mode Triggerable voltage scanning with user control over start/stop voltages, scan speed, and waveform (ramp or triangle) Scan speeds range from 100 ms to 10,000 s; supports single and continuous scans Front-panel 6-digit display for voltage setting

Typical Applications

Precision bias sourcing, laboratory threshold setting, metrology and calibration standards, precision control systems, low-noise voltage references.

Compatibility & Integration

RS-232, USB, and fiber optic interfaces via SX199 Remote Computer Interface Unit. AC line inputs: 100 V, 120 V, 220–230 V, or 240 V at 50 Hz or 60 Hz. Benchtop form factor.

Features & description

From manufacturer datasheet

Features

- Ranges: ± 1.010000 V, ± 10.10000 V, ± 101.0000 V • Resolutions: 1 μ V / 10 μ V / 100 μ V • Max current: 50 mA (± 1 V and ± 10 V); 25 mA (± 100 V) • 1-year accuracy class: $\pm(25$ ppm of setting + offset) per range
- 24-hour stability: $\pm(1$ ppm of setting + offset) • Temperature coefficient: $\pm(1$ ppm of setting + offset)/ $^{\circ}$ C, 0–40 $^{\circ}$ C • Noise (typ.): 0.5 μ Vrms (0.1–10 Hz) on 1 V range • Scan: 0.1 s to 9999.9 s; ramp or triangle; single or continuous; external/front/remote trigger • 2-wire or 4-wire sense; Ground or Float (250 V max vs chassis) • Linear AC supplies; USB, RS-232, fiber optic

DC205 Characteristics / Specifications

PARAMETER	VALUE
Model	DC205
Manufacturer	Stanford Research Systems (SRS)
Instrument Type	Precision DC Voltage Source
Alias	DC205
Conditions	After 2-hour warm-up at 23 °C ±1 °C unless noted; *preliminary per OEM datasheet Signal Output
Configuration	2-wire or 4-wire (remote sense); Ground or Float (250 V max) ±1 V Range
Full Scale	±1.010000 V
Resolution	100 µV
Max Current	50 mA (±1 V and ±10 V); 25 mA (±100 V)
Accuracy 24 h	±(8 ppm of setting + 120 µV)
Stability 24 h	±(1 ppm of setting + 20 µV)
Temp. Coefficient	±(1 ppm of setting + 15 µV)/°C (0–40 °C)
Noise (typ.)	12 µVrms (0.1 Hz–10 Hz); 50 µVrms (10 Hz–100 kHz) Voltage Scanning
Scan Speed	0.1 s to 9999.9 s
Scan Type	Ramp or triangle; continuous or single shot
Trigger	Rear-panel trigger, front panel, or computer interface Remote Interfaces
USB	Virtual COM, 115.2k baud, 8N1, RTS/CTS
Fiber Optic	Via SX199 Optical Interface Controller (GPIB, RS-232, Ethernet) General
Operating Temperature	0 °C to 40 °C, non-condensing
Power	<30 W; 100/120/220/240 VAC; 50 or 60 Hz
Dimensions	8.3" × 3.5" × 13.0" (W×H×L)
Weight	10 lbs Standard Operating Conditions All performance after 2-hour warm-up at 23 °C ±1 °C ambient unless otherwise specified. Operational Notes Use 4-wire sense at the load for accurate potential.

PARAMETER	VALUE
	Floating mode allows up to 250 V relative to chassis ground. Fiber isolation via SX199 for GPIB/Ethernet control.
Ranges	± 1.010000 V, ± 10.10000 V, ± 101.0000 V
Resolutions	1 μ V / 10 μ V / 100 μ V
1-year accuracy class	$\pm$ (25 ppm of setting + offset) per range
24-hour stability	$\pm$ (1 ppm of setting + offset)
Temperature coefficient	$\pm$ (1 ppm of setting + offset)/°C, 0–40 °C
Scan	0.1 s to 9999.9 s; ramp or triangle; single or continuous; external/front/remote trigger

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 °C to 40 °C, non-condensing
Operating Temperature	0 °C to 40 °C, non-condensing
Power	<30 W; 100/120/220/240 VAC; 50 or 60 Hz
Dimensions	8.3" × 3.5" × 13.0" (W×H×L)
Weight	10 lbs Standard Operating Conditions All performance after 2-hour warm-up at 23 °C ±1 °C ambient unless otherwise specified. Operational Notes Use 4-wire sense at the load for accurate potential. Floating mode allows up to 250 V relative to chassis ground. Fiber isolation via SX199 for GPIB/Ethernet control.

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	DC205
Manufacturer	Stanford Research Systems (SRS)
Instrument Type	Precision DC Voltage Source
Alias	DC205
Conditions	After 2-hour warm-up at 23 °C ±1 °C unless noted; *preliminary per OEM datasheet
Signal Output	
Configuration: 2-wire or 4-wire (remote sense); Ground or Float (250 V max)	
±1 V Range	
Specifications	
PARAMETER	VALUE
Full Scale	±1.010000 V
Resolution	1 µV
Max Current	50 mA
Accuracy 24 h	±(7 ppm of setting + 2 µV)
Accuracy 90 day*: ±(12 ppm of setting + 6 µV)	
Accuracy 1 year*: ±(25 ppm of setting + 10 µV)	
Specifications	
PARAMETER	VALUE
Stability 24 h	±(1 ppm of setting + 1 µV)
Temp. Coefficient	±(1 ppm of setting + 1 µV)/°C (0–40 °C)
Noise (typ.)	0.5 µVrms (0.1 Hz–10 Hz); 9 µVrms (10 Hz–100 kHz)
±10 V Range	
Specifications	
PARAMETER	VALUE
Full Scale	±10.10000 V

PARAMETER	VALUE
Resolution	10 μ V
Max Current	50 mA
Accuracy 24 h	$\pm$ (7 ppm of setting + 12 μ V)

Accuracy 90 day*: $\pm$ (12 ppm of setting + 20 μ V)
Accuracy 1 year*: $\pm$ (25 ppm of setting + 20 μ V)

Specifications

PARAMETER	VALUE
Stability 24 h	$\pm$ (1 ppm of setting + 3 μ V)
Temp. Coefficient	$\pm$ (1 ppm of setting + 2 μ V)/ $^{\circ}$ C (0–40 $^{\circ}$ C)
Noise (typ.)	1.5 μ Vrms (0.1 Hz–10 Hz); 12 μ Vrms (10 Hz–100 kHz)

$\pm$ 100 V Range

Specifications

PARAMETER	VALUE
Full Scale	$\pm$ 101.0000 V
Resolution	100 μ V
Max Current	25 mA
Accuracy 24 h	$\pm$ (8 ppm of setting + 120 μ V)

Accuracy 90 day*: $\pm$ (12 ppm of setting + 200 μ V)
Accuracy 1 year*: $\pm$ (25 ppm of setting + 200 μ V)

Specifications

PARAMETER	VALUE
Stability 24 h	$\pm$ (1 ppm of setting + 20 μ V)
Temp. Coefficient	$\pm$ (1 ppm of setting + 15 μ V)/ $^{\circ}$ C (0–40 $^{\circ}$ C)
Noise (typ.)	12 μ Vrms (0.1 Hz–10 Hz); 50 μ Vrms (10 Hz–100 kHz)

Voltage Scanning

Specifications

PARAMETER	VALUE
Scan Speed	0.1 s to 9999.9 s
Scan Type	Ramp or triangle; continuous or single shot
Trigger	Rear-panel trigger, front panel, or computer interface

Remote Interfaces
USB: Virtual COM, 115.2k baud, 8N1, RTS/CTS
RS-232: DB-9, 9600 baud
Fiber Optic: Via SX199 Optical Interface Controller (GPIB, RS-232, Ethernet)
General

Specifications

PARAMETER	VALUE
Operating Temperature	0 °C to 40 °C, non-condensing
Power	<30 W; 100/120/220/240 VAC; 50 or 60 Hz
Dimensions	8.3" × 3.5" × 13.0" (W×H×L)
Weight	10 lbs

Standard Operating Conditions
All performance after 2-hour warm-up at 23 °C ±1 °C ambient unless otherwise specified.

Operational Notes
Use 4-wire sense at the load for accurate potential. Floating mode allows up to 250 V relative to chassis ground. Fiber isolation via SX199 for GPIB/Ethernet control.

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.