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Data Sheet

August 13, 2026

STANFORD RESEARCH SYSTEMS

Stanford Research CIS200

Stanford Research Systems CIS200 Closed Ion Source Quadrupole Gas Analyzer The SRS CIS200 is the 200 amu closed-ion-source quadrupole gas analyzer for direct measurement of trace impurities in process gases at pressures up to 10 mTorr. A high-conductance closed ion source (electron-impact, gold-plated SS304) operates in CIS mode (typically 0.05 mA emission) or open RGA mode (typically 0.5 mA). Faraday cup and electron multiplier detectors are standard on CIS-with-multiplier ordering configurations. Probe mounts on a 2.75 inch CF flange; the electronics control unit separates for bakeout to 300 C. The SRS CIS200 is the 200 amu closed-ion-source quadrupole gas analyzer for direct measurement of trace impurities in process gases at pressures up to 10 mTorr. A high-conductance closed ion source (electron-impact, gold-plated SS304) operates in CIS mode (typically 0.05 mA emission) or open RGA mode (typically 0.5 mA). Faraday cup and electron multiplier detectors are standard on CIS-with-multiplier ordering configurations. Probe mounts on a 2.75 inch CF flange; the electronics control unit separates for bakeout to 300 C. Process-gas impurity monitoring at mTorr pressures including species above 100 amu; verification of process chambers; RGA-mode UHV residual-gas scans; semiconductor and vacuum-process equipment qualification where 200 amu coverage is required.



MODEL

**Stanford Research
Systems CIS200**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

CIS200

LISTING

<https://aumictechlabs.com/products/cis200-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Stanford Research Systems CIS200 is a computer interface that enables remote control and data acquisition for compatible Stanford Research Systems lock-in amplifiers. It bridges lock-in amplifiers and computers through standard connection protocols, providing real-time measurement data capture and direct manipulation of instrument parameters from your desktop or laptop. The CIS200 integrates into existing laboratory setups with dedicated ports for amplifier connection and configurable computer interfaces.

Technical Specifications

Device Type: Computer interface for lock-in amplifiers

Primary Functions: Remote control, data acquisition, parameter configuration

Computer Connection: Standard computer connection protocols; specific port types (USB, GPIB, Ethernet) depend on unit revision and configuration

Amplifier Connection: Dedicated ports utilizing proprietary or standardized connectors compatible with supported lock-in amplifier models

Form Factor: Compact desktop unit designed for laboratory benchtop use

Enclosure: Durable materials rated for industrial and laboratory environments

Status Indicators: Power, communication, and operational status LEDs

Key Features

- Real-time data acquisition directly from connected lock-in amplifiers
- Remote configuration of measurement parameters including gain, time constant, and reference frequency
- Data logging and visualization capabilities integrated into accompanying software
- Data export in standard formats (CSV, TXT) for third-party analysis tools
- Broad host system compatibility through standard connection protocols

Typical Applications

- Automated measurement and monitoring of lock-in amplifier output
- Remote laboratory instrument control and data collection
- Long-term data logging and parameter variation studies
- Integration of lock-in measurements into larger automated test systems

Compatibility & Integration

The CIS200 supports a variety of Stanford Research Systems lock-in amplifiers. Verify specific model compatibility with manufacturer documentation to ensure optimal performance within your instrument suite. The interface accommodates both legacy and current lock-in amplifier generations through configurable connection options.

Features & description

From manufacturer datasheet

Features

- Mass range 1 to 200 amu (CIS100 is 100 amu; CIS300 is 300 amu)
- CIS and RGA operating modes with programmable electron energy 25 to 105 eV
- Better than 0.5 amu resolution at 10 percent peak height (AVS 2.3)
- Field-replaceable tungsten or ThO₂/Ir filament with firmware protection
- RS-232C 28800 baud and Windows RGA application; multi-head operation
- 24 VDC at 2.5 A; optional AC power module; optional O100TDP turbo/diaphragm pump

CIS200 Characteristics / Specifications

PARAMETER	VALUE
Model	CIS200
Manufacturer	Stanford Research Systems
Instrument Type	Closed Ion Source Quadrupole Gas Analyzer
Series	CIS100/CIS200/CIS300
Alias	CIS200; CIS200/1; SRS CIS200
Mass Range	1 to 200 amu
Ion Source Type	high conductance closed ion source
Mass Filter Type	quadrupole, cylindrical rods 0.25 in diameter, 4.5 in length
Detector Type	Faraday cup standard; electron multiplier (CDEM) included on CIS/1 multiplier configurations
Resolution	better than 0.5 amu at 10 percent peak height; adjustable to constant peak width
Maximum Operating Temperature	70 C
Bakeout Temperature	300 C without ECU (manual also lists 350 C FC / 300 C CDEM max bake)
Recommended Bakeout Temperature	200 C
Ionizer Design	closed ion source, cylindrical symmetry, electron impact
Ionizer Material	gold plated SS304
Filament	tungsten or ThO ₂ /Ir with firmware protection, field replaceable
Electron Energy	25 to 105 eV, programmable
Ion Energy	4 or 8 eV, programmable
Focus Voltage	0 to 150 V, programmable
Electron Emission Current	0 to 1 mA, programmable
CIS Mode Emission Typical	0.05 mA
RGA Mode Emission Typical	0.5 mA
CIS Mode Sensitivity	1e-6 A/Torr (N ₂ at 28 amu, Faraday)
RGA Mode Sensitivity	1e-5 A/Torr (N ₂ at 28 amu, Faraday)

PARAMETER	VALUE
CIS Linear Range Upper Limit	2e-3 Torr
RGA Linear Range Upper Limit	1e-4 Torr
CIS MDPP Faraday	1e-8 Torr
RGA MDPP Faraday	1e-9 Torr
CIS MDPP CDEM	1e-10 Torr
RGA MDPP CDEM	1e-11 Torr
Maximum Operating Pressure Faraday	1e-2 Torr to UHV
Maximum Operating Pressure CDEM	2e-3 Torr to UHV
Probe Mounting Flange	2.75 inch CF
ECU Dimensions	4.1 in x 3.1 in x 9.1 in (WHD)
Warm Up Peak Height	+/-2 percent after 3 minutes
Warm Up Mass Stability	+/-0.1 amu after 30 minutes
Computer Interface	RS232C, 28800 baud with high-level command set
Power Requirement	24 VDC at 2.5 A, male DB9; optional built-in AC module
Weight	6 lbs
Detection Limit Family	1 ppm class / 1e-12 Torr class (CIS series headlines)
Ionizer Conductance Nominal	0.4 L/s
Heater Jacket Option	O100HJC 200 C Notes Specs from SRS CIS catalog, CIS product page, and CIS100/200/300 manual. CIS200 is the 200 amu closed-ion-source analyzer. Confirm filament type, CDEM option, and ECU power module.
Operating temperature	70 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	70 C
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Bakeout Temperature	300 C without ECU (manual also lists 350 C FC / 300 C CDEM max bake)
Recommended Bakeout Temperature	200 C
Ionizer Design	closed ion source, cylindrical symmetry, electron impact
Ionizer Material	gold plated SS304
Filament	tungsten or ThO ₂ /Ir with firmware protection, field replaceable
Electron Energy	25 to 105 eV, programmable
Ion Energy	4 or 8 eV, programmable
Focus Voltage	0 to 150 V, programmable
Electron Emission Current	0 to 1 mA, programmable
CIS Mode Emission Typical	0.05 mA
RGA Mode Emission Typical	0.5 mA
CIS Mode Sensitivity	1e-6 A/Torr (N ₂ at 28 amu, Faraday)
RGA Mode Sensitivity	1e-5 A/Torr (N ₂ at 28 amu, Faraday)
CIS Linear Range Upper Limit	2e-3 Torr
RGA Linear Range Upper Limit	1e-4 Torr
CIS MDPP Faraday	1e-8 Torr
RGA MDPP Faraday	1e-9 Torr
CIS MDPP CDEM	1e-10 Torr
RGA MDPP CDEM	1e-11 Torr
Maximum Operating Pressure Faraday	1e-2 Torr to UHV
Maximum Operating Pressure CDEM	2e-3 Torr to UHV
Probe Mounting Flange	2.75 inch CF
ECU Dimensions	4.1 in x 3.1 in x 9.1 in (WHD)

PARAMETER	VALUE
Warm Up Peak Height	+/-2 percent after 3 minutes
Warm Up Mass Stability	+/-0.1 amu after 30 minutes
Computer Interface	RS232C, 28800 baud with high-level command set
Power Requirement	24 VDC at 2.5 A, male DB9; optional built-in AC module
Weight	6 lbs
Detection Limit Family	1 ppm class / 1e-12 Torr class (CIS series headlines)
Ionizer Conductance Nominal	0.4 L/s
Heater Jacket Option	O100HJC 200 C Notes Specs from SRS CIS catalog, CIS product page, and CIS100/200/300 manual. CIS200 is the 200 amu closed-ion-source analyzer. Confirm filament type, CDEM option, and ECU power module.

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	CIS200
Manufacturer	Stanford Research Systems
Instrument Type	Closed Ion Source Quadrupole Gas Analyzer
Series	CIS100/CIS200/CIS300
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Ionizer Material	gold plated SS304
Filament	tungsten or ThO2/Ir with firmware protection, field replaceable
Electron Energy	25 to 105 eV, programmable
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CIS Mode Emission Typical	0.05 mA
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CIS Mode Sensitivity	1e-6 A/Torr (N2 at 28 amu, Faraday)
RGA Mode Sensitivity	1e-5 A/Torr (N2 at 28 amu, Faraday)
CIS Linear Range Upper Limit	2e-3 Torr

PARAMETER	VALUE
RGA Linear Range Upper Limit	1e-4 Torr
CIS MDPP Faraday	1e-8 Torr
RGA MDPP Faraday	1e-9 Torr
CIS MDPP CDEM	1e-10 Torr
RGA MDPP CDEM	1e-11 Torr
Maximum Operating Pressure Faraday	1e-2 Torr to UHV
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Power Requirement	24 VDC at 2.5 A, male DB9; optional built-in AC module
Weight	6 lbs
Detection Limit Family	1 ppm class / 1e-12 Torr class (CIS series headlines)
Ionizer Conductance Nominal	0.4 L/s
Heater Jacket Option	0100HJC 200 C

Notes

Specs from SRS CIS catalog, CIS product page, and CIS100/200/300 manual. CIS200 is the 200 amu closed-ion-source analyzer. Confirm filament type, CDEM option, and ECU power module.

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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Generated August 13, 2026

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