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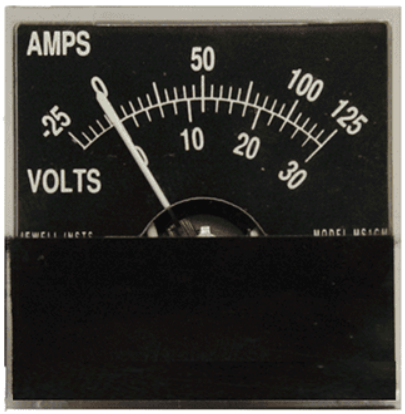
Data Sheet
August 13, 2026

JEWELL INSTRUMENTS

Jewell Instruments MS2 Analog Panel Meter

Stanford Research Systems QMS200 Residual Gas Analyzer / High Pressure Gas Analyzer The SRS QMS200 is the 200 amu member of the QMS Series transportable high-pressure gas analyzers. A two-stage capillary inlet samples gases from about 10 mbar to greater than 1 bar whileaquadrupole residual gas analyzer operates at high vacuum (about 5e-6 mbar). Faraday cup and optional electron multiplier detectors provide less than 1 ppm detection (multiplier) and better than 0.5 amu resolution at 10 % peak height. Response time is less than 0.5 s (manual also lists less than 400 ms). Hybrid turbomolecular/drag and diaphragm pumps are built in. The SRS QMS200 is the 200 amu member of the QMS Series transportable high-pressure gas analyzers. A two-stage capillary inlet samples gases from about 10 mbar to greater than 1 bar whileaquadrupole residual gas analyzer operates at high vacuum (about 5e-6 mbar). Faraday cup and optional electron multiplier detectors provide less than 1 ppm detection (multiplier) and better than 0.5 amu resolution at 10 % peak height. Response time is less than 0.5 s (manual also lists less than 400 ms). Hybrid turbomolecular/drag and diaphragm pumps are built in. On-line process-gas monitoring; leak detection; atmospheric and near-atmospheric sampling; replacing batch gas-chromatograph sampling with continuous spectra; portable residual-gas analysis.



MODEL **Jewell Instruments MS2**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **MS2**	LISTING **https://aumictechlabs.com/products/ms2-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Jewell Instruments MS2 Analog Panel Meter delivers precise electrical signal indication across industrial and laboratory environments. This analog meter combines D'Arsonval movement technology with user-accessible zero adjustment and multiple configuration options to meet diverse measurement requirements. Technical Specifications Accuracy & Standards DC meters: ±2% of full scale at 23°C AC rectified-type meters: ±3% of full scale at 23°C Compliant with ANSI C39.1 Movement Types Three movement options address different application demands. Pivot & Jewel movements employ a compact, self-shielded D'Arsonval design with 100° deflection (100 µA range and above) or 90° deflection (below 100 µA range), offering excellent damping and shock resistance. Taut Band (TB) movements provide superior torque and damping with 100° standard deflection and enhanced shock immunity through unique suspension design. Core-Mag (CM) movements deliver 90° standard deflection. Electrical Characteristics Ammeter resistance: ±10% of stated value in ohms. Voltmeter resistance: ±5% of stated value in ohms. The 1½" meter input is 50 mVDC for use with external shunts (not supplied). Key Features External zero adjuster on cover with ±3% minimum adjustment range Zero positioning: standard left configuration; center, right, and offset available upon request Precision molded black thermoplastic barrel and flange case; Lexan available on special order Optically clear molded Plexiglass concave cover reduces glare and improves readability White metal dial with sharp division marks and black printed numerals Standard black lance pointer; knife edge, tubular, red, or white pointer options available Threaded stud-type terminals standard; solder lugs available upon request Typical Applications Continuous signal monitoring in industrial control systems, laboratory measurement, panel-mounted indication across AC and DC electrical circuits, and demanding environments requiring shock and vibration resistance. Compatibility & Integration 1½" meters mount via single ring screw-in design. 2½" MS2 meters support three-stud and four-stud ANSI C3 mountings. Dial and pointer customization, including mirrored and multicolor options, available upon request.

Features & description

From manufacturer datasheet

Features

- 1 to 200 amu quadrupole (QMS100 is 100 amu; QMS300 is 300 amu)

MS2 Characteristics / Specifications

PARAMETER	VALUE
Model	QMS200
Manufacturer	Stanford Research Systems
Instrument Type	High Pressure Gas Analyzer / Residual Gas Analyzer
Series	QMS 100/200/300
Alias	QMS200; SRS QMS200
Mass Range	1 to 200 amu
Mass Filter Type	quadrupole
Detector Types	Faraday cup standard; electron multiplier optional
Resolution	better than 0.5 amu at 10 % of peak height
Detection Limit Catalog	less than 1 ppm
Detection Limit Faraday	less than 10 ppm (manual)
Detection Limit Multiplier	less than 1 ppm (manual)
Analyzer Operating Pressure	5e-6 mbar
Inlet Type	capillary (stainless steel and PEEK; manual also lists glass-lined plastic)
Inlet Flow Rate	1 to 10 milliliter per minute at atmospheric pressure
Inlet Pressure Range	10 mbar to greater than 1 bar (depending on capillary)
Response Time Catalog	less than 0.5 s
Response Time Manual	less than 400 ms
Individual Mass Rate	up to 25 points per second
Inlet Fitting	1/4 inch Ultra-Torr
Exhaust Fitting	1/4 inch Swagelok tube adapter (manual)
Computer Interface	RS-232C, 28800 baud, DB9
Software	RGA Windows application
High Vacuum Pump	hybrid turbomolecular/drag, 70 L/s (manual)
Turbo Ultimate Pressure	2e-9 mbar (manual)

PARAMETER	VALUE
Diaphragm Ultimate Pressure	less than 1 mbar (manual)
Construction Materials	SS304 and SS316
Insulators	alumina, ceramic
Seals	Viton, buna-N, and nitrile butyl rubber
Startup Time Catalog	5 minutes from full stop
Startup Time Manual	2 minutes from full stop
Maximum Ambient Temperature	35 C
Protection Class	IP44 (manual)
Line Power	110 VAC 60 Hz or 220 VAC 50 Hz (not field selectable)
Power Consumption	less than 600 W total (manual)
Catalog Dimensions	8.0 in x 17.0 in x 24.0 in WHL (product page); 7.06 in x 17.25 in x 24.80 in WHD (catalog)
Manual Dimensions	44 cmHx 20 cmWx 61 cm D (17 inHx 8 inWx 24 in D)
Weight	75 lbs (34 kg)

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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Specifications

PARAMETER	VALUE
Inlet Pressure Range	10 mbar to greater than 1 bar (depending on capillary)
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Response Time Manual	less than 400 ms

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Individual Mass Rate	up to 25 points per second
Inlet Fitting	1/4 inch Ultra-Torr
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Manual Dimensions: 44 cmHx 20 cmWx 61 cm D (17 inHx 8 inWx 24 in D)

Weight: 75 lbs (34 kg)

Optional Direct RGA Port: 2.75 inch CF high-vacuum port

Notes

Specs from SRS QMS product page, QMSc catalog, and QMS manual. QMS200 is the 200 amu sampling system (not an RGA100 UHV probe). Confirm Faraday versus electron-multiplier detector, capillary type, and 110/220 VAC build. Startup time differs between catalog (5 min) and manual (2 min).

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

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Generated August 13, 2026