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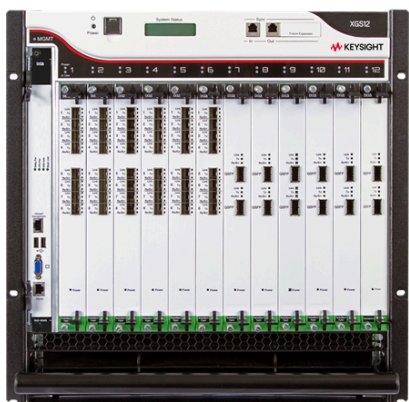
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight XGS12

Agilent Varian Keysight XGS-600 Vacuum Gauge Controller 12 Gauge Class XGS12 The Agilent XGS-600 is a half-rack modular vacuum gauge controller. OEM data sheet 5994-4133EN allows simultaneous operation of up to 12 gauges and display of up to 8 channels. Standard features are 8 open-collector setpoints (20 ms max response with delay 0.0 s) and 8 contact relays (24 V at 2 A). Six card slots accept HFIG (to 4), IMG (to 5), dual convection (to 6 cards / 12 rough gauges), and dual analog-input active-gauge cards (to 6 cards / 12 active gauges). Measurement range is 1×10^{-11} Torr to atmosphere depending on card and gauge. Analog outputs are 1 V/dec LOG, 0–10 V FS, 200 ms update. Power is 100–240 VAC, 2 A, 50/60 Hz. Ambient is 5–40 °C. Display is 240×128 LCD with 200 ms updates. Catalog listing XGS12 maps to the 12-gauge capability class of XGS-600. The Agilent XGS-600 is a half-rack modular vacuum gauge controller. OEM data sheet 5994-4133EN allows simultaneous operation of up to 12 gauges and display of up to 8 channels. Standard features are 8 open-collector setpoints (20 ms max response with delay 0.0 s) and 8 contact relays (24 V at 2 A). Six card slots accept HFIG (to 4), IMG (to 5), dual convection (to 6 cards / 12 rough gauges), and dual analog-input active-gauge cards (to 6 cards / 12 active gauges). Measurement range is 1×10^{-11} Torr to atmosphere depending on card and gauge. A



MODEL

**Agilent / Keysight
XGS12**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

XGS12

LISTING

<https://aumictechlabs.com/products/xgs12-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight XGS12 is a 12-slot modular chassis platform engineered for high-density Layer 2-7 testing of network equipment, application performance, security, and conformance validation. Three models deliver flexible deployment: the XGS12-SD and XGS12-SDL offer standard performance on Windows 10 Professional or Windows 7, while the XGS12-HSL runs native IxOS for scenarios. The chassis occupies 11RU of vertical rack space and accepts hot-swappable Keysight XM form factor (XMFF) load modules across a high-speed backplane designed for bandwidth-intensive, resource-aggregated testing.

Technical Specifications

Chassis Slots: 12 slots, XMFF load module compatible

Rack Height: 11RU

Interface Support: 400GE, 100GE, 50GE, 40GE, 25GE, 10GE, and 10/100/1000 Mbps copper Ethernet

Power Input: Three single-phase sources, 200-240 VAC, 50/60 Hz, 20 A each

Power Supply Module: Three removable 2825 W supplies per chassis

Maximum Current Draw: 12 A at 200 VAC; 10 A at 240 VAC per line cord

Power Cord Rating: 16 A continuous; plugs and receptacles rated 20 A; UL certified for supplied 200-240 VAC North American (NEMA L6-20P) cords

Timing Synchronization: GPS antenna (AFD1) or IRIG-B (AFD2) support; STAR and Metronome chassis synchronization available with 80 nanosecond accuracy

Key Features

- Field-replaceable Processor Module, Fan Module, and Power Supply Module
- Hot-swappable load modules for non-disruptive addition or replacement during active tests
- Front-to-back airflow management for high-density module operation
- Native IxOS or Windows-based control depending on model selection

Typical Applications

- Network equipment testing and validation
- Layer 2-7 protocol and performance assessment
- Security and conformance testing at scale
- Application performance characterization

Compatibility & Integration

The XGS12 integrates with IxNetwork, IxLoad, and BreakingPoint test applications through native APIs and automation frameworks.

XGS12 Characteristics / Specifications

PARAMETER	VALUE
Model	XGS12
Base Controller	XGS-600
Instrument Type	Modular vacuum gauge controller
Maximum Gauges	12 simultaneous
Displayed Channels	up to 8 simultaneous; large font 2 channels readable from 15 to 20 feet
Card Slots	6
Hfig Cards	up to 4 hot filament BA cards
Img Cards	up to 5 inverted magnetron cards
Convection Cards	up to 6 dual convection cards (12 rough gauges)
Active Gauge Cards	up to 6 dual analog input cards (12 active gauges)
Measurement Range	1×10 ⁻¹¹ Torr to atmosphere depending on card and gauge
Open Collector Setpoints	8 normally open, programmable ON/OFF delays, 20 ms max response at 0.0 s delay
Contact Relays	8 NO or NC mechanical relays, 24 V at 2 A, 25 pin D-sub MultiGauge/SenTorr pinout
Serial Communications	RS232 and RS485 fully programmable
Analog Outputs	1 V/dec LOG, 0 to 10 V FS, 200 ms update on each card
Display	LCD monochrome 240 × 128, white LED backlight, 5 button keypad, 200 ms update
Power Input	100 to 240 VAC, 2 A, 50/60 Hz, IEC inlet
Ambient Temperature	5 to 40 °C
Form Factor	2U 1/2 rack
Manufacturer	Agilent Varian Keysight
Literature	Agilent XGS-600 data sheet 5994-4133EN
Family	Agilent XGS-600 vacuum gauge controllers
Brand Lineage	Varian Agilent Keysight
System Role	multi gauge vacuum controller

PARAMETER	VALUE
Use Case	12 gauge class XGS-600 systems
Documentation Type	OEM XGS-600 data sheet
Regulatory	CE, RoHS, BV USA/Canada
Memory	FLASH non-volatile, no batteries
Degas	E-BEAM degas with auto turn off for BA gauges

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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Notes

From Agilent XGS-600 data sheet 5994-4133EN (up to 12 gauges, 8 displayed, 8 setpoints/relays, 100-240 VAC 2 A, 5-40 °C, 1×10^{-11} Torr to Atm). Catalog XGS12 is the 12-gauge capability class of XGS-600; card mix and cable lengths are on the ordering tables.

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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NIST-traceable calibration · SAM registered ·
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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.