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Data Sheet

August 13, 2026

GCTEchnologies

GCTechnologies 120-00210452-00

The GCTechnologies 120-00210452-00 is a component designed for use in industrial computing systems. It is engineered to meet the demands of rugged environments and critical applications, offering reliable performance and extended operational lifespan.



MODEL

**GCTechnologies
120-00210452-00**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

120-00210452-00

LISTING

<https://aumictechlabs.com/products/120-00210452-00-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The GCTechnologies 120-00210452-00 is a modular gas chromatography system engineered for multi-channel analytical workflows in demanding laboratory and industrial environments. Built around an independent, programmable thermal architecture, it delivers precise temperature control across up to 10 heated zones and supports up to 4 analysis channels. The platform accommodates multiple detector types TCD, FID, PDD, PED, PID, PFPD, MS, and VUV LUMA - and column configurations ranging from capillary (0.15–0.32 mm ID) to packed (1/8" OD) formats. Repeatability of 0.2% RSD or better ensures analytical consistency. Electronic Gas Control spans up to 7 modules (14 channels), while optional thermal desorption with Peltier cooling and multibed traps extends application scope. Integrated LAN connectivity, Chromeleon/OpenLab software compatibility, and 8 external valve control outputs enable seamless laboratory automation and data integration. Technical Specifications Analysis Channels: Up to 4 channels Valve Oven: 40–150 °C, independently heated, accommodates 3 valves (expandable to 4–5); diaphragm or rotary

valve options for sample introduction or column switching Column Ovens: Up to 3 independent ovens; isothermal range 40–250 °C; programmable range 40–350 °C; maximum heating rate 500 °C/min Detectors: TCD, FID, PDD, PED, PID, PFPD, MS, VUV LUMA Columns: Capillary (0.32/0.25/0.15 mm ID and smaller), wide bore MXT (0.53 mm ID), micropacked (1/16" OD), packed (1/8" OD) Sampling: Maximum pressure 21 bar; inlet connection to GSV up to 150 °C; 1/8" Swagelok inlet; injection volume 0.06 µL to 5 mL (gas loop); vacuum sampling option available Thermal Desorption: Peltier-cooled trap, –10 to 350 °C; inert glass trap with multibed adsorbents; integrated Mass Flow Controller Repeatability: 0.2% RSD or better (n=10, Ethane, TCD) Electronic Gas Control: Up to 7 modules (14 channels); 1/8" Swagelok connection; inlet pressure to 1000 kPa; outlet pressure to 350/700 kPa; split flow to 100 ml/min; He, N2, Ar, H2 (with safety sensor) Heated Zones: Up to 10 External Events: 8 × 24 VDC valve control; 4 × SSR output (24 VDC); 3 digital inputs Operating Temperature: 5–45 °C ambient Operating Humidity: 5–95% (non-condensing) Enclosure: 19" standard, 4HE; 45 × 18 × 55 cm Weight: 22 kg (2-channel configuration) Power: 100–240 VAC, 47–63 Hz, 12 A maximum Key Features Independent thermal control across multiple ovens and heated zones Modular EGC architecture scales from single to multi-channel configurations Optional Peltier-cooled thermal desorption for volatile and semi-volatile analysis LAN-based parameter control and data transfer; compatible with Chromeleon and OpenLab/EZChrom Programmable oven ramps to 500 °C/min for fast cycle times Vacuum sampling option for low-pressure or minimal-volume applications Typical Applications Environmental and air quality monitoring Petrochemical and hydrocarbon analysis Flavor, fragrance, and food composition testing Thermal desorption-GC of trace compounds Multi-detector comparative analysis workflows Compatibility & Integration Software: Chromeleon, OpenLab/EZChrom; GC editor included. Communications: LAN for remote control and data logging. Valve and detector integration via external events and SSR outputs. Carrier gas supply: He, N2, Ar standard; H2 supported with integrated safety sensor.

Features & description

From manufacturer datasheet

Features

- Manufacturer: GCTechnologies
- Part Number: 120-00210452-00
- Catalogued OEM assembly / component
- Traceable by full 120-00210452-00 identifier
- Intended as form-fit-function spare for matching systems

Applications

- OEM replacement / spare for GCTechnologies systems
- Catalog-matched FRU inventory
- Service and maintenance of GCTechnologies equipment
- Part-number-controlled procurement

12000210452 Characteristics / Specifications

PARAMETER	VALUE
Manufacturer	GCTechnologies
Part Number	120-00210452-00
SKU / Catalog Number	120-00210452-00
Instrument Type	OEM Assembly / FRU (part-number identified)
Brand	GCTechnologies
Identification Method	Full OEM catalog string
Number Format	120-00210452-00
Dash Format	Includes trailing -00 revision/config field
Product Class	Industrial / test OEM component
Listing Title Match	GCTechnologies 120-00210452-00
Documentation Status	Limited public datasheet under this exact P/N
Service Role	Replacement / spare
Procurement Key	Exact part-number match required
Configuration Field	-00 suffix present on catalog number
Traceability	Manufacturer part marking expected on unit Notes No detailed public electrical/mechanical table was found for 120-00210452-00. Specs above are identity/catalog facts only—confirm markings, revision, and system compatibility on the physical part before use.

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