

GC112A Gas Chromatography



Main Features:

- Synchronous bidirectional control with touch screen on the GC112A.
- The 7-inch color touch screen on the GC112A can display the flow rate and pressure value of the electronic gas path.
- The multi core, 32-bit embedded hardware system ensures the reliable operation of the instrument.
- One key start up function.
- The extendable synchronous external trigger function can initiate GC112A and workstation through external signals, such as automatic sampling device, thermal analyzer and so on.
- The instrument has sound system self-checking function and malfunction automatic identification function.
- The instrument has 8 external event interface with extendable functions, which can work with a variety of functional control valve, performing according to the set timing.
- The memory function can store 20-sample test modes.
- RS232 communication port and LAN port.

Oven:

- Inside capacity: 22L
- Temperature range: room temperature up to 400 °C
- Temperature accuracy: ± 0.1 °C
- Temperature programming: 9 step
- Program Total Time: 9999.9 min
- Max heating rate: 0.1-60 °C/min
- Max cooling rate: ≤ 10 mins (250 °C - 50 °C)

Sample Injector:

- Temperature range: room temperature up to 420 °C
- Temp control type: independent
- Carrier gas flow control type: constant pressure
- Max quantity: 3PCS
- Type: Packed column or split
- Split ratio: display
- Pre column pressure range: 0-400kpa
- Pre column pressure accuracy: 0.1kpa
- Flow setting range: H₂ 0-200ml/min
N₂ 0-150ml/min

Detector:

- FID or TCD
- Temperature Range: room temperature up to 420 °C
- Max installation Qty.: 2
- Ignition model: automatic
- Hydrogen Flame Ionization Detector (FID):
Logarithmic amplifier
High Voltage Switch Control
Baseline signal display
Detection limit: $\leq 3 \times 10^{-12}$ g/s (sample: n-hexadecane)
- Thermal Conductivity Detector (TCD):
Sensitivity: 8000 mV/ml/mg (sample: n-hexadecane)
Baseline noise: ≤ 0.05 mV
Baseline draft: ≤ 0.15 mV/30min
Dynamic range: 10^5
- Baseline noise: $\leq 5 \times 10^{-14}$ A
Baseline draft: $\leq 6 \times 10^{-13}$ A
Dynamic range: 10^7
RSD: $\leq 3\%$

Overall Dimension & Weight:

- Power: 220V \pm 22V, 50Hz \pm 0.5Hz, 3000W
- Overall Dimension: 1020x 660x740 (mm)
- G.W.: 82kg
- N.W.: 70kg