

## GC126N Gas chromatograph



### Technical Features:

- The host machine adopts a 7-inch color touch screen with friendly man-machine interface.
- Computer backcontrol and host touch screen to achieve synchronous bidirectional control.
- The multi-core, 32-bit embedded hardware system ensures the reliable operation of the instrument.
- Carrier/hydrogen/air flow (pressure) digital display.
- Gas shortage alarm protection function; Heating control protection function (when opening the door of the column box, the motor of the column box fan and the heating system will shut down automatically).
- Split flow/split ratio can be automatically controlled to save carrier gas.
- Configure automatic sampler installation and positioning interface to match automatic sampler of various specifications.
- Data acquisition is a standard dual-channel data acquisition card with a sampling time of 50ms.
- Using logarithmic amplification plate, detection signal no cut-off value, synchronous external trigger function, can be started by external signals (automatic sampler, thermal analyzer, etc.) at the same time the host and workstation.
- It has perfect system self-check function and fault automatic identification function.
- With eight external event extension function interface, can be selected with a variety of control valves, and according to their own set time sequence work.
- The external link mode is network port connection (RJ45), which provides convenience for remote control of data.

### Column temperature box:

- Temperature range: 5°C ~ 400°C at room temperature

- Temperature control accuracy:  $\pm 0.1^{\circ}\text{C}$
- Program heating: stage 9/10 platform
- Total program time: 9999.9 min
- Maximum heating rate:  $60^{\circ}\text{C} / \text{min}$

Sampler:

- Temperature range:  $7^{\circ}\text{C} \sim 420^{\circ}\text{C}$  at room temperature
- Fill column, split/split sampler can be installed
- Working under constant pressure mode
- No more than three independent sampling systems are connected simultaneously

Detector:

- A maximum of 2 units are installed simultaneously. FID, TCD, ECD and FPD are optional.
- Flow/pressure is displayed directly on the screen.
- Temperature setting: Max.  $420^{\circ}\text{C}$
- Hydrogen flame ionization detector (FID)

High voltage switch control

Baseline signal display

Ignition coil control

Detection limit:  $\leq 3 \times 10^{-12} \text{ g/s}$

Sample: N-hexadecane (minimum detection quantity:  $3 \text{ pg/s}$ )

Dynamic range:  $10^7$

- Thermal conductivity detector (TCD) :

Bridge voltage switch control

Bridge current setting:  $0 \sim 220 \text{ mA}$

Sensitivity:  $5000 \text{ mV} \cdot \text{mL/mg}$

Dynamic range:  $10^5$

- Electronic capture detector (ECD) :

Radiation source:  $\text{Ni}63$

Detection limit:  $\leq 8 \times 10^{-14} \text{ g/s}$

Sample: R 666 (minimum detection quantity:  $80 \text{ FG/s}$ )

Dynamic range:  $10^3$

- Flame photometric detector (FPD) :

Temperature setting: Maximum  $350^{\circ}\text{C}$

Detection limit:  $\leq 2 \times 10^{-12} \text{ g/s (P)}$

$\leq 4 \times 10^{-11} \text{ g/s (s) sample}$

: Methyl parathion

Dynamic range: P  $10^3$

Dynamic range: S  $10^2$

Heating area:

- In addition to the column box independent heating area, there are six heating areas. 2 injector heating zones, 2 detector heating zones and 2 auxiliary heating zones.
- The maximum operating temperature of the auxiliary heating area can reach  $400^{\circ}\text{C}$