GAS CHROMATOGRAPHY

SUITABLE FOR VARIOUS APPLICATIONS:

- Beverage
- Pharmaceutical
- Chemical Analysis
- Biotechnology
- Microbiology
- Power & Petroleum
- Agricultural
- Drinking Water/Wastewater
- Environment

MODEL: GC-8860

FEATURES:

- 8-inch touch screen.
- Gas circuit manually and full electronic gas circuit (EPC/EFC) control is optional, networking communication (Ethernet interface IEEE802.3), computer online full control operation.
- Electronic gas circuit (EPC/EFC) control mode
- EPC electronic gas circuit control precision is 0.01mL/min or 0.01Kpa, which ensures better retention time reproducibility
- and more consistent and reliable results
- EPC working mode: constant current, constant voltage, shunt mode
- Program pressure control: 4 stage
- EPC working gases: N2, H2, Air, He, Ar
- EPC control range: pressure 0~ 0.6kpa flow 0~100sccm or 0~500sccm
- EPC control accuracy: pressure 0.01Kpa; Flow rate of 0.01 sccm
- Support high-speed heating, the maximum rate of 80 ℃ / min; Suitable for rapid analysis
- Could be up to 450 ℃, suitable for high boiling point the analysis of the sample
- Support double oven and double rear door opening mode
- External events: 6-way. Auxiliary control 2-way.
- Diversified injection system; Packed column injection, capillary S/SL injection, valve injection, automatic liquid injection,
- Automatic headspace injection, splitting injection, thermal desorption injection, purge and capture injection are optional
- Special customized valve system can help users complete complex multi dimensional Chromatographic analysis tasks. Plus series is a multi-purpose gas chromatography specially designed for multidimensional application analysis and online analysis.
- Rich detector types, up to three detectors can be installed: TCD, HTCD, u TCD, FID, FPD, ECD, NPD, ZD, PDHID, PID, AID
- The program supports multiple flow path sample selection MPV system, with automatic identification valve number, automatic cascade judgment, automatic reset, valve position selection, valve position analysis memory function, up to 32 support sample flow path selection
- Unique network remote transmission and control functions, unattended analysis, decentralized monitoring, centralized control.
- The data can be connected to DCS system to complete the statistics, analysis and monitoring of chromatographic component content and improve the automation level of production process control
- Temperature control index:
- Temperature control circuit number: 8
- Oven temperature index
- Oven temperature range: room temperature of 4 ℃ ~ 450 ℃ (increment 1 ℃)
- Oven temperature control precision, better than ±0.01 ℃
- Oven temperature programming Rising order: 16 order

DETECTOR

FID

- The collecting pole adopts the original cylindrical structure and quartz nozzle
- Limit of detection:≦3×10^{-12}g/s
- Baseline Noise: 5×10^{-14}A
- Baseline Drift: ≦1×10^{-13}A/30min
- Linear: ≧10^7
- Autoignition

TCD

- Adopt semi-diffused structure
- Constant current control mode is adopted for power supply
- Sensitivity: S≧3000mv.ml/mg
  HTCD High sensitivity thermal conductivity detector S≧10000mv.ml/mg; Digital amplification 1, 2, 4, 8 times optional
- Baseline Noise: ≦10μv
- Baseline Drift: ≦30μv/30min
- Linear: ≧10^5
- Carrier gas velocity stability: ≦1%
- Capillary column connecting parts are optional

ECD

- Limit of detection：≦1×10^{-14}g/s
- Linear range: 10^4
- Source: Ni^{63}

FPD

- Limit of detection: $5\times^{-12}$g/s(S) (S in methyl parathion)
  5×10^{-13}g/s (P) (P in methyl parathion)
- Linear range: 10^5(P) 10^3(S)
- Maximum service temperature: 350℃
- Detection Method: Air-hydrogen flame spectrometry
- Optical detector: Top photomultiplier
- Multiplier voltage: Max--700V

NPD

- Limit of detection: (N)≦5×10^{-12}g/s
  (P)≦5×10^{-12}g/s

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