

Innovative Solution Trusted Partner

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PGC-86 Portable GC



PANNA PGC-86 portable GC

PGC-86 is a durable and compact laboratory level gas analysis platform that can generate more data in a shorter period of time for quick and reliable business decision-making. When the composition of gas mixtures is crucial, PGC-86 can always meet your needs.

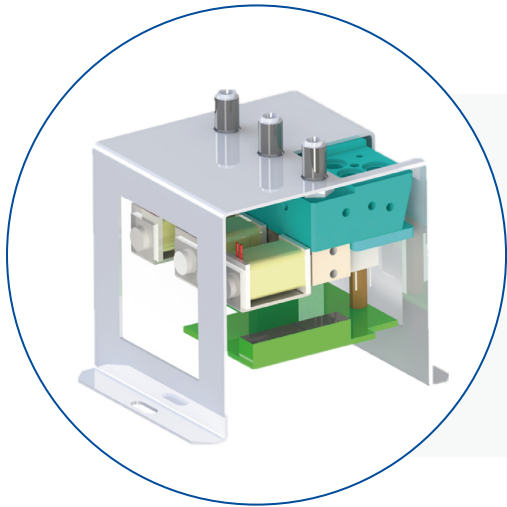
Product features

- **Truly portable**
Integrated design with built-in battery and gas cylinder.
- **Long usage time**
Adopting a 24V ultra large capacity lithium-ion battery, the host and sampling gun can work continuously for more than 5 hours at the same time, ensuring long-term on-site use.
- **Efficiency**
Short analysis cycle, enabling fast on-site analysis.
- **Autonomy of key components**
Some key components involved in the instrument have been independently and domestically produced to replace imports, resulting in superior performance.

- **Stability**
Using highly sensitive EPC to accurately control gas pressure, up to 6 gas channels can be precisely controlled.
- **Low maintenance costs**
The carrier gas, Air, and hydrogen cylinders all use refillable gas cylinders, and users can fill them on site; The battery adopts long-life battery cells, which have a long service life and low maintenance costs.
- **Friendly human-machine interface**
Using Windows based workstation software, touch screen design, one click measurement, displaying real-time spectrograms and measurement data.



A high-precision and stable electronic pneumatic control system

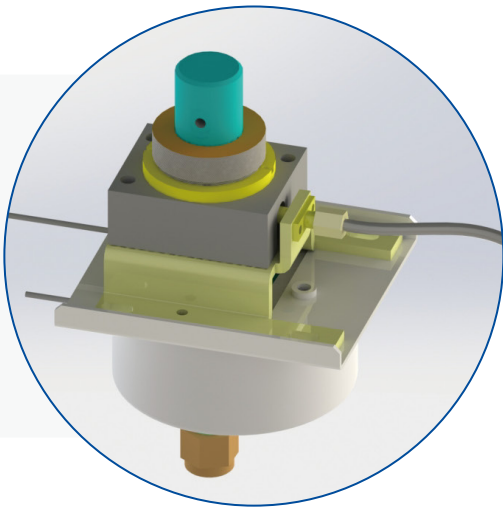


Fully automatic electronic flow control system (EPC)

- The module is equipped with advanced proportional valves and pressure sensors;
- Control accuracy of 0.001psi;
- Ensure the accuracy and stability of instrument analysis.

High sensitivity FID

- Automatic ignition, automatic protection against hydrogen leakage;
- The signal amplification board has been specially processed and remains stable in harsh environments;
- Micro current digital signal output detector, linear range 10^7 .



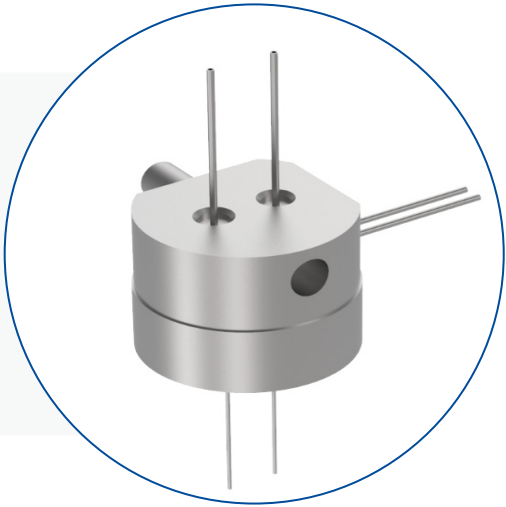
Adapt to multiple detectors

- PGC-86 can adapt to multiple detectors such as FID、TCD and FPD, greatly expanding the detection range.



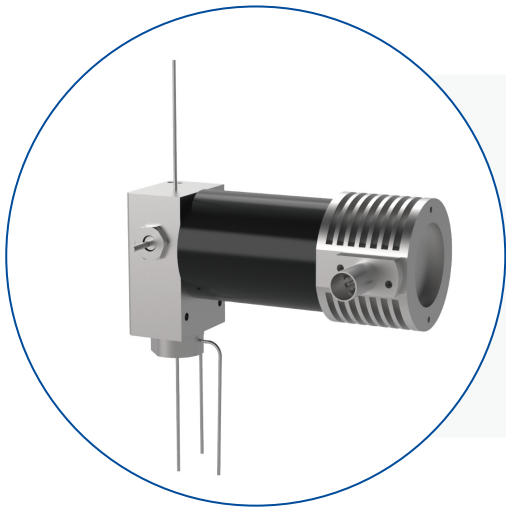
High performance TCD

- High precision electronic flow control
- Baseline noise: $\leq 0.1\text{mV}$
- Baseline drift: $\leq 0.2\text{mV}/30\text{min}$
- Sensitivity: $\geq 50000\text{mV} \times \text{mL}/\text{mg}(\text{CH}_4, \text{The carrier gas is He})$



High sensitivity FPD

- High precision electronic flow control
- Baseline noise: $\leq 4.0 \times 10^{-12}\text{A}$
- Baseline drift: $\leq 4.0 \times 10^{-11}\text{A}/30\text{min}$
- Detection limit: $\leq 4.0 \times 10^{-12}\text{g}/\text{s}(\text{S})$; $\leq 1.1 \times 10^{-13}\text{g}/\text{s}(\text{P})$; (Standard substance: Methyl parathion)

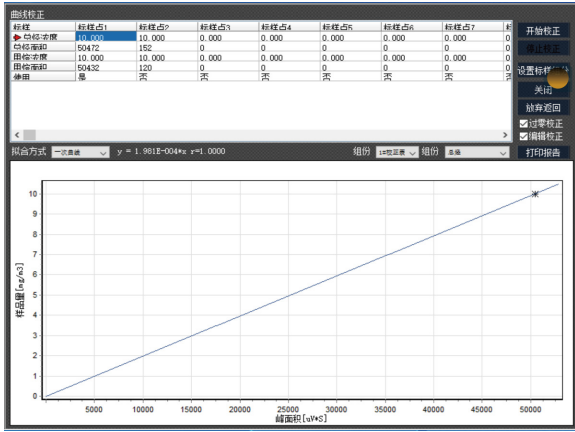
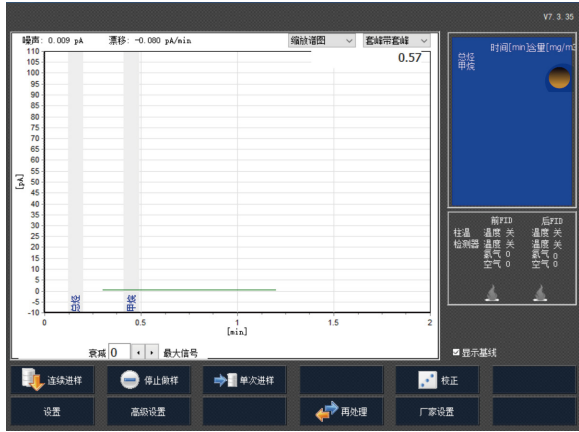
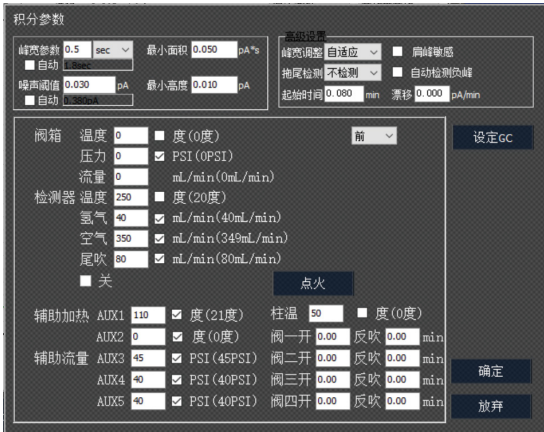


High quality GC columns

- High quality GC columns are specifically designed to provide excellent reproducibility and ultra-high performance for various extremely difficult to analyze samples.GC columns have ultra-low loss levels, ideal inertness for the analysis of acidic, alkaline, and mixed functional group compounds, as well as excellent column reproducibility.



Embedded software workstation



Portable specialized sampling gun

Portable gas sampling gun, small in size and light in weight, convenient to carry. The power supply used by the sampling gun is directly provided by PGC-86, without the need for external batteries.

Portable printer

Portable printers are designed specifically for portability, capable of real-time report format printing of monitoring data, forming text files. It is connected to the host through Bluetooth and has the characteristics of simple operation and intuitive data.



Application scenarios

