

**Product Name :**  
Astra Gas Chromatography

**Product Code :**  
ASTRALAB-SUPPLYA17015



**Description :**

Astra Gas Chromatography

**Technical Specification :**

Networking

Using 10/100M adaptive Internet communication technology, it can form a local area network with high communication efficiency; realize long-distance data transmission; one chromatograph can be connected to three computers; one computer can be connected to multiple chromatographs (up to 5000) and Perform

operational control.

#### Control

The parameters of all instruments can be remotely set via a computer and processed through the spectrogram.

Complete EPC / EFC control (optional; only gas pressure or flow can be displayed)

Adopt new automatic flow/pressure control technology to digitally control the parameters (flow and pressure) of all gas channels. There are three working modes: constant flow, constant pressure and split flow. It can perform 4-step program pressurization, the pressure accuracy is 0.01kpa, and the flow rate is 0.01sccm.

#### Touch screen

The instrument uses a large touch color screen, intuitive and easy to operate.

#### Rapid temperature rise and fall

It has a rapid temperature rise and fall structure, which can reach a temperature rise rate of 80?/min; it works at room temperature; it supports a wide range of temperature control from -80? to 450? under the condition of adding liquid nitrogen. It takes 3 minutes from 350°C to room temperature

#### Automatic ignition, automatic detection and fire extinguishing

Using intelligent hydrogen and air automatic control technology, solenoid valve automatically opens and closes the gas, so as to realize the real automatic ignition function.

#### Support multi-valve switching

It has 8 external event functions, supports multi-valve switching, and realizes the application of multi-dimensional chromatography system.

#### Multiple detectors in series and parallel

The advanced gas path process can install up to three detectors at the same time; it can realize the simultaneous use of FID and TCD, and can also realize the simultaneous use of dual thermal conductivity detectors.

#### High temperature control accuracy

With the help of the world's latest digital integrated circuit devices and technology, the instrument has high control accuracy (temperature control can reach 0.1°C), and its performance stability and reliability are comparable to imported instruments.

The advanced double-back door automatic opening function can automatically adjust the opening and closing angle with temperature changes.

With fault checking and self-diagnosis functions;

Injection repeatability 2%;

The conventional split ratio is 150:1, and the special requirement is 500:1;

Perfect temperature overheating protection, platinum wire resistance open circuit, short circuit protection and alarm functions to ensure that the temperature is not out of control;

With air cut/air leakage protection function and Chinese prompt function, it can protect TCD tungsten wire and chromatographic column from damage to the greatest extent.

With power-off protection function, parameters can be automatically memorized and set.

It has the functions of resisting power mutation and stopwatch timing.

With air cut/leak protection function and Chinese prompt function, it can protect TCD tungsten wire and chromatographic column from damage to the greatest extent;

Heating rate: 0.1-39?/ min (normal type); 0.1-80?/ min (high speed type);

Temperature control

Temperature control area: 12 ways

Temperature control range: 4 ? ~ 450 ? above room temperature, increment: 1 ?, accuracy:  $\pm 0.1$  ?

Order of programmed temperature rise: 16

Lift rate: 0.1-39 ? / min (common type); 0.1?80 ?/min (high-speed type)

Pressure flow control index

Pressure and flow measurement:

Pointer type pressure gauge mode, electronic pressure flow mode

full electronic gas pressure and flow measurement system:

The maximum number of measurement channels for a single module: 16 channels

EPC and EFC working modes:

kinds; constant current mode, constant pressure mode and shunt mode

EPC, EFC working gas:

4 kinds; nitrogen, hydrogen, air, helium

EPC, EFC lift: Level 4

EPC, EFC control range:

Pressure: 0-0.6kpa; flow: 0-100sccm or 0-500sccm (air);

EPC, EFC control accuracy:

Pressure 0.01kpa; flow 0.01sccm;

pressure sensor:

Accuracy: < 2% of full scale

Reproducibility: < 0.05 kPa

Temperature coefficient: < 0.01 kPa / ° C

Range: 0-0.3kpa or 0-0.6kpa;

Flow sensor:

Accuracy: < 5% of full scale

Reproducibility: < 0.5% (full scale)

Range: 0-500sccm



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