

# IR CARBON SULPHUR ANALYZER ANA42-10C



# IR CARBON SULPHUR ANALYZER ANA42-10C

IR Carbon Sulfur Analyzer is developed for the accurate and safe analysis of carbon and sulfur in inorganic samples. It can rapidly and accurately conduct content determination of carbon and sulfur in materials like steel, iron, alloy, nonferrous metals, etc. This is a high-tech product that integrates optical, electrical, computer, and analytical technology into one.

Used in Mining, Construction Material, Food, Geology, Commercial Inspection, Automotive, Aviation, Steel Products, Minerals, Non-Ferrous Metals, Non-Ferrous Metal Alloys, Inorganic Materials, Research.

Also known as Laboratory IR Carbon Sulfur Analyzer.

## ANA42-10C IR CARBON SULPHUR ANALYZER

It can fleetly and exactly measure the carbon and sulfur in steel, iron, alloy, nonferrous metals, and other materials.

Radio circuit: The design of high-duty radio circuit and the application of 2.5KVA HF plitron, frequency : 20MHz. Military-purpose ceramic vacuum tubes and ceramic vacuum capacitors.

HF control circuit: It is used for automatic detection of the electromagnetic valve, the elevation or descent of cylinder and the performance of HF unit. Automatic overtime/overflow alarming system enables the HF furnace to work under normal condition.

The optional current/voltage/power regulator for furnace temperature control: It is applicable to samples of various materials.

Gas path: The high precision flow controller ensures the stability of gas flow as well the gas intake system (such as electromagnetic valves, unions, cylinder hoists) for automatic leakage detection. Dual standard correction for solid and gas.

De-dusting unit: The combustion head self-cleaning device effective for reducing the influence of dust for the result of analysis; ash removing system for the inlet. 0.4 μm submicron metal filter secures thorough separation of dust from gas and can be used for a long time with no need of the ultrasonic cleaner.

Analysis channel: Providing channel management features, the carbon and sulfur channels are free to increase, delete and edit, no limit.

Analysis function: Analysis of the dynamic data, sampling every 20 times, improving the analysis sensitivity and analysis accuracy, providing sample management features, it can edit the sample name and logo, also can increase and delete samples, the software provides a user management system, the administrator setting different user permissions.

Data processing function: Adopt ACCESS data pool store the analysis results, can store all data and curve, Query the analysis results optionally, query according to the time, sample name, logo and operator. Provide some function as data storage, blank deduction, setting parameter, choosing channel, statistics, and curve Compare etc. In the software can create the work curve of carbon and sulfur, realizing the curve fitting.

Self-diagnose function: System diagnosis function, can test furnace head and the gas chamber sealing by the software.

Wide measuring scope, strong anti interference, multiple function.



## SPECIFICATIONS

| Model                     | ANA42-10C  |
|---------------------------|--|
| Working Environment       | Room temp: 10°C to 30°C, relative Humidity less than 75% |
| Carbon Measurement Range  | w(C) 0.0001% - 10.0000% (can be extended to 99.999%)     |
| Sulphur Measurement Range | w(C) 0.0001% - 3.5000% (can be extended to 99.999%)      |

|                                    |   |
|------------------------------------|---|
| Carbon Analysis Pool               | Low carbon pool and high carbon pool  |
| Sulphur Analysis Pool              | High sulphur pool could be added (Optional)   |
| Carbon Analysis Precision          | RSD<0.5%  |
| Sulphur Analysis Precision         | RSD<1%  |
| Time of analysis                   | 25 to 60 seconds, could be adjusted. Around 35 seconds usually  |
| Sensitivity (The minimum readings) | C/s 0.1 ppm   |
| Electronic scale                   | Precision of read: 0.0001g  |
| Operational Software               | WINDOWS XP English operating software   |
| Display function                   | The Carbon sulfur has a curve respectively  |
| Printing function                  | Print mode is diversification, provides two print modes of laboratory and testing, also can design printing formats |
| Sample weight                      | 0.5 g   |

## ACCESSORIES

| Accessory Code | Name  | Description | 1 |
|----------------|---|-------------|---|
| LS52063        | High frequency automatic inductive combustion furnace |             | 1 |
| LS52076        | Electric Balance                                      |             | 1 |
| LS52089        | Computer  |             | 1 |
| LS52102        | Printer   |             | 1 |

# ***Centrifugen***

## **Centrifugen**

82 Wendell Avenue, STE 100, Pittsfield, MA, 01201, USA  
Email: [info@centrifugen.com](mailto:info@centrifugen.com) | Website: [centrifugen.com](http://centrifugen.com)