



## IR CARBON SULPHUR ANALYZER BANA-401

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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.

## BANA-401 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  $\mu$ m 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	BANA-401
Working Environment	Room temp: 10°C to 30°C, relative Humidity less than 75%
Carbon Measurement Range	w(C) 0.0005% - 6.0000% (can be extended to 99.999%)
Sulphur Measurement Range	w(C) 0.0005% - 0.5000% (can be extended to 99.999%)
Carbon Analysis Pool	One pool

Sulphur Analysis Pool	one pool
Carbon Analysis Precision	RSD<1%
Sulphur Analysis Precision	RSD<1.5%
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	1
1600906006	High frequency automatic inductive combustion furnace	1
1600906007	Electric Balance	1
1600906008	Computer	1
1600906009	Printer	1



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