KASON CS-8820S High Frequency Infrared Carbon Sulfur Analyzer

KASONTEST®

Product introduction

CS-8820S Type High-frequency Infrared Carbon & Sulfur Analyzer compatible applying with W F-L88 Type High frequency automatic inductive combustion furnace, can fleetly and exactly measu rethe carbon and sulfur in steel, iron, alloy, nonferrous metals, cement, ore, coal and oth ermaterials. This equipment is a high-tech products integrate light, motor, electronic, computer a ndanalysis technology, with features of wide measuring scope, strong anti interference, multi plefunction, easy to operate, accurate and reliable analysis result.

Tel：+8615910081986 www.syjlab.com

Technical Parameters

Measure Range:

Carbon: w(C) 0.0001%-15.0000% (can be extended to 99.999%)

Sulpher: w(C) 0.0001%-10.000% (can be extended to 99.999%)

Sample weight:

standard 0.5g

Analysis Error:

Carbon: accord with ISO9556 standard

Sulfur: accord with ISO4935 and

D4239.

Analysis Precision:

Carbon: RSD<0.5%

Sulfur: RSD<1%

Analysis pool

Carbon: low carbon pool and high carbon pool

Sulfur: if the customer request,the high sulfur pool could be added

Time of analysis:

25 to 60 seconds, could be adjusted. Around 35 seconds usually

Sensitivity(The minimum readings):

C/s 0.1ppm

Electronic scale:

Precision of read: 0.0001g

Working Environment:

Room temp: 10 to 30 degree C,relative Humidity less than 75%

Configuration of the instrument

Infrared Detection Unit

Circuit Design:	The modularized design with double CPU for the whole frame is divided into the upper and lower levels while the electronic circuits are highly integrated stably and reliably; in the meantime the multilevel hidden-type isolated circuit is employed so that it is free from HF interference.
Power:	The linear close-coupled modular power block ensures stable output without fault.
Light source:	The tailor-made new model platinum infrared light source has lasting caloricity and efficient spectral property.
Analysis cell:	The gilded carbon & sulfur analysis cell is fit with the high precision TSC infrared detector (10-11); it is also possible to have the double-carbon cell or the double- carbon & double-sulfur cell fit out at the client's request.
Motor:	The special-purpose aviation modulation motor is applied with satisfactory thermal stability whose life expectancy exceeds 100,000 hours.

High-frequency combustion system

Radio circuit:	The design of high-duty radio circuit and the application of 2.5KVA HF pliotron. 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.

Analytical gas path system

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.

FOCUS IN MATERIAL TEST

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JINAN KASON TESTING
EQUIPMENT Co, LTD.
DuandianIndustrial Park , Jingshi Road, Jinan City,China.
P: +86 159 1008 1986
E: admin@jnkason.com I W: www.syjlab.com