

CARBON AND SULFUR ANALYZER CODE CSA-R300

CAN BE CUSTOMIZED FOR HIGH SULPHUR CHANNEL
ACCORDING TO REQUIREMENTS



- Widely used in iron and steel metallurgy, powder metallurgy, magnetic materials, new energy, third-party testing, research institutes, etc.
- Analysis of carbon and sulfur in steel, cast iron, alloys, cement, sand, glass, lime, rubber, catalysts, soil, semiconductors, electronic materials, metal ores, ceramics and other solid materials
- Adoption of high-end infrared detection system and the core components of the air circuit system ensures the stability and accuracy of detection
- The high-frequency heating system adopts special high-frequency capacitors to ensure the long-term reliability of high-frequency work
- Adopt German imported special external metal dust filter, easy to dismantle, easy to clean
- Electronic balance for accurate weighing, auto-matic tare of crucible mass, auto-matic input of sample weight
- The software can monitor solenoid status, signal acquisition status, high frequency status, baseline status, etc.
- With data management and storage, query and statistics, printing projects, generating reports

SPECIFICATION

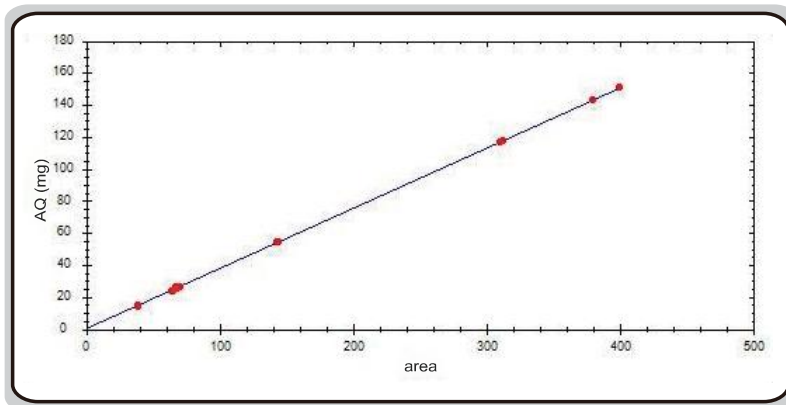
Detector	pyroelectric solid state infrared detectors
Light source	infrared light source
Channel configuration	standard with high carbon, low carbon, low sulfur
Thermostatic	gas chamber thermostat control
Analysis range	low carbon: 0.6ppm~0.1%, high carbon: 0.1%~50%, low sulfur: 0.6ppm~0.3%*
Analysis accuracy	carbon: 1ppm or RSD ≤ 0.5%, sulfur: 1ppm or RSD ≤ 1.0%
Sensitivity	0.01ppm
Analysis time	30S~40S
Sample weighing	recommended range 0.1g~0.5g, can be changed according to the sample content
Combustion furnace	18MHz, 2.7kVA
Carrier gas	oxygen concentration ≥99.5%
Motive gas	nitrogen concentration ≥99.5%
Power supply	AC220V±10%, 50Hz, 16A
Dimensions (W×D×H)	550×760×770mm
weight	100kg

*The analytical range can be extended to 100% by changing the weighing volume, can be customized for high sulfur channel with 0.3-30% analysis range

STANDARD DELIVERY

Main unit	1pc
Computer	1pc
Software	1pc
Dust catcher	1pc
Electronic balance (8310-120M)	1pc
Printer	1pc
Pressure valve	1pc
Standard sample	3pcs
Soda lime (CSA-R300-SL)	1pc
Tungsten flux (CSA-R300-TF)	1pc
Desiccant (CSA-R300-DE)	1pc
Crucible (CSA-R300-CR)	1000pcs
Tool	1set

ANALYSIS CURVE



ANALYSIS SOFTWARE (INCLUDED)

Sample Info:
 Sample name (PS): 1
 Auto number: 1
 Sample: 0
 Balance (Pa) Start (Ps) Step (Esc)
 Leader (Fs)

Analysis results:
C 0.353847%
S 0.016284%
 SD: C 0.403089 S 0.007720
 RSD: 113.90% 47.41%

Date/Time	Sample name	No.	Carbon result	Sulfur result	Channel	Sample weight	Flux weight(g)	Carbon area
03/15/2022 14:14	.083	21	0.072030%	0.020207%	LC/LS	0.2891	0.0000	52.063771
03/15/2022 14:15	.083	22	0.071341%	0.020129%	LC/LS	0.2882	0.0000	50.666096
03/15/2022 14:16	.71.13	23	0.520215%	0.006447%	HC/LS	0.1919	0.0000	3.336939
03/15/2022 14:19	.71.13	24	0.520450%	0.003931%	HC/LS	0.2048	0.0000	3.872007
03/15/2022 14:21	.268.201	25	0.232009%	0.136466%	LC/LS	0.2020	1.4205	118.236606
03/15/2022 14:22	.268.201	26	0.234100%	0.126988%	LC/LS	0.1996	1.3438	116.815821
03/15/2022 14:24	.405.0165	27	0.342050%	0.012116%	HC/LS	0.2056	0.0000	3.029316
03/15/2022 14:25	.406.0166	28	0.337200%	0.019407%	HC/LS	0.2623	0.0000	2.941453
03/15/2022 14:29	.127.024	29	0.114711%	0.017639%	LC/LS	0.2204	0.0000	69.520136
03/15/2022 14:29	.127.024	30	0.116253%	0.021110%	LC/LS	0.2367	1.2946	66.792658
03/15/2022 14:29	.041.0025	31	0.035803%	0.005180%	LC/LS	0.2842	0.0000	25.566031
03/15/2022 14:30	.041.0025	32	0.036047%	0.020619%	LC/LS	0.3206	0.0000	26.891540

Channel:
 LC HC
 LS MS

Instrument status:
 Carrier Pneumatic Rare
 Furnace Brush Loader

Status: Ready..

User:adjustor Method: Default

Release curves: A graph showing UV vs T/s. Two curves are shown: a blue curve peaking at ~0.65 around 15s, and a purple curve peaking at ~0.25 around 15s.

Base lines: A graph showing UV vs T/s. Two fluctuating lines are shown: a blue line and a purple line, both between 0.010 and 0.025 UV.