



AUTOMATING YOUR REQUIREMENTS

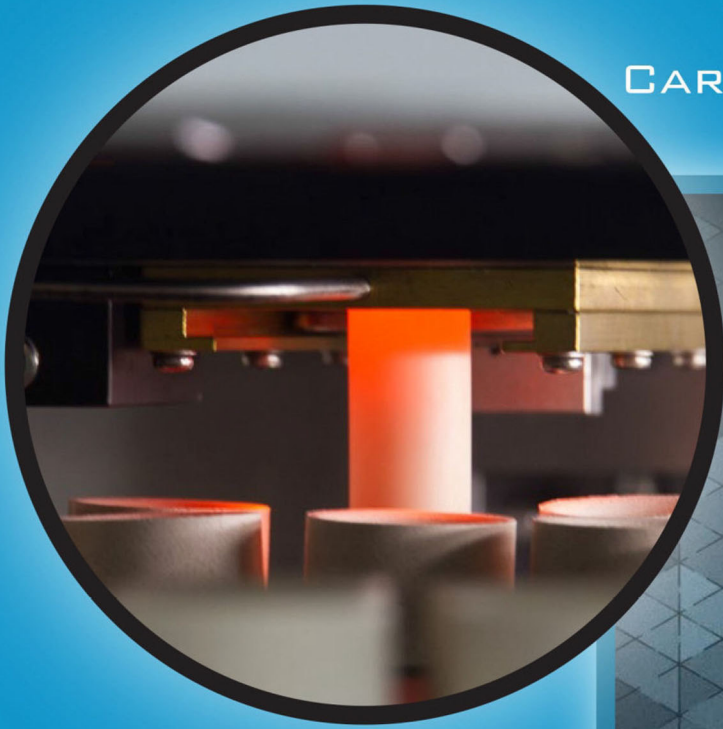
**CS-1232**

“CARBON SULPHUR DONE RIGHT”



# CS-1232

CARBON SULPHUR ANALYSER



48 Position sample  
changer - Standard



48 SAMPLE CHANGER

FAST, ACCURATE RESULTS

RELIABLE ELECTRONICS

MODULAR DESIGN

LIMS COMPATIBLE

## CS-1232

### Carbon & Sulphur Determination

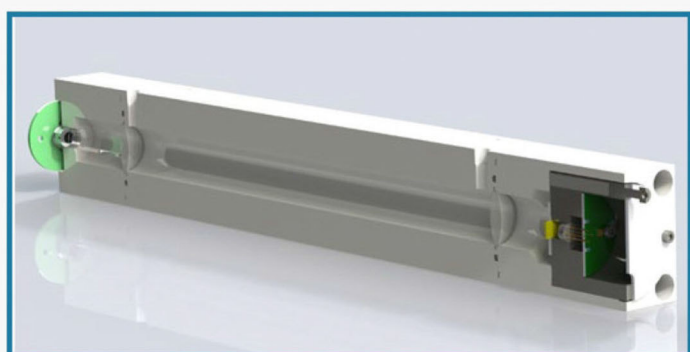
The Labfit CS-1232 is designed to determine Carbon and Sulphur in organic materials. The instrument includes a 48 position sample changer as an integral part of the analyser.

### Reliable Mechanics/Electronics

The CS-1232 Carbon Sulphur analyser utilises a vertical resistance furnace that when combined with the sample loading mechanism increasing instrument reliability and thus sample throughput. The simplified combustion system makes it easy to clean and maintain. The CS-1232 has a power module that distributes 24VDC power to the rest of the instrument making this Carbon Sulphur analyser one of the safest on the market.



Ease of access  
to all areas



### IR Detection

Advanced infrared optical design increases sensitivity and because no gold reflection is used, the IR system is not susceptible to loss in signal due to dirty samples or compounds that strip gold coatings such as salts.

Get more confidence with your results and look towards a CS-1232 Carbon Sulphur analyser today!

- APPLICATIONS
- MINERAL ORES
- COALS & COKING COALS
- ACID ROCK DRAINAGE
- CEMENTS & PLANTS
- ORGANIC MATERIALS

# CS-1232 Specifications

<b>GENERAL</b>	
<b>DIMENSIONS</b>	850mm Wide x 700mm Deep x 920mm High
<b>WEIGHT</b>	140 Kg
<b>ANALYSER POWER</b>	Single phase 230 VAC +/- 10%, 50/60Hz 3A / 20 W
<b>FURNACE POWER</b>	Single phase 220-230VAC +/-10% 50/60Hz Maximum heat current 25A
<b>POWER CONSUMPTION</b>	6.2kW
<b>FURNACE TEMPERATURE</b>	Ambient to 1450°C
<b>BALANCE</b>	Sartorius analytical 0.1Mg
<b>GASES</b>	Oxygen 99.5% pure, 3l/min 300kPa Compressed air, dry & clean 600kPa
<b>CHEMICALS</b>	H <sub>2</sub> O Trap, Magnesium Perchlorate
<b>ANALYSIS</b>	
<b>NOMINAL SAMPLE WEIGHTS</b>	Coal & Coke, 300mg Mineral Ores, up to 1 gram Soils & Plants, up to 1 gram Oils (Diesel), 300mg (reduction in temperature)
<b>NORMAL ANALYSIS TIME</b>	60-120 Seconds
<b>ACCURACY</b>	Carbon, +/- 1% of the element present Sulphur, +/- 1% of the element present
<b>SENSITIVITY</b>	Carbon, 0.01% Sulphur, 0.01%
<b>DETECTION LIMITS</b>	*Carbon, 38% using 0.3 gram sample *Sulfur, >38% using 0.3 gram sample
<b>STANDARD METHOD</b>	ASTM D4239, ASTM D5016
<b>NUMBER OF SAMPLE</b>	48 SAMPLES
<b>MEASURING RANGES</b>	
<b>CARBON</b>	0-100% C
<b>SULPHUR</b>	0-100% S
<b>CONFIGURATIONS</b>	
<b>CARBON &amp; DUAL RANGE SULPHUR</b>	<b>CARBON &amp; LOW SULPHUR</b>
<b>CARBON &amp; HIGH SULPHUR</b>	<b>CARBON ONLY</b>
<b>DUAL RANGE SULPHUR</b>	<b>HIGH SULPHUR ONLY</b>
<b>LOW SULPHUR ONLY</b>	<b>LOW CARBON<sup>1</sup></b>
<sup>1</sup> Low Carbon is available upon request for any of the configurations listed above.	
*Higher detection limits can be achieved by varying the sample weights.	