CS-800
Carbon / Sulfur Determinator

MEASURING RANGES	
Low carbon Up to 0.1% C at 500mg sample resp. up to 0.5mg C1)	**Low sulfur** Up to 0.3% S at 500mg sample resp. up to 1.5mg S1)
High carbon Up to 5% C at 500mg sample resp. up to 25mg C 1) Indicating range Up to 100% C2)	**High sulfur** 30% S at 150mg sample resp. up to 45mg S1) Indicating range up to 100% S2)

SENSITIVITY	
Carbon 0.1 ppm C at 500mg sample resp. 0.05µg C	**Sulfur** 0.1 ppm S at 500mg sample resp. 0,05µg S 1)

ACCURACY	
Low carbon 1) ±1ppm C 3) at 1gram sample resp. ±1 µg C or ±0.5% of carbon present	**Low sulfur** 1) ±1ppm S at 1gram sample resp. ±1µg S or ±0.5% of sulfur present
High carbon 1) ±100ppm C 3) at 500 mg sample resp. ±50 µg C or ±0.5% of C present	**High sulfur** 1) ±0.1% S at 150 mg sample resp. ±150 µg S or ±0.5% of S present

GENERAL SPECIFICATIONS	
Normal sample weight 0.5g to 1g for steel and cast iron	**Normal analysis time** 40 to 50 seconds
Furnace type Induction, 19.5 MHz 2.2 kVA max	**Furnace dust cleaning** Automatic
Detection method Solid state infrared absorption for carbon and sulfur	**Chemicals** CO_2 Trap Sodium hydroxide H_2O trap Magnesium perchlorate Catalyst copper oxide
Gas required Oxygen 99.5% pure, 2 to 4 bar (30 to 60 psi), 3 l/min	**Compressed air** 4 to 6 bar (60 to 90 psi)
Interfaces Computer - serial 4)	**Power requirements** 230 V AC ±10% 50/60 Hz max 15 Amps 3450 Watts
Weigths Analyzer: approx. 110 kg	**Dimensions** Width Height Depth 55cm(21") 80cm(31.5") 60cm(23.5")

ACCESSORIES
Balance: 0.0001g to 60 g ±0.0001

Computer: Pentium PC with HDD, 3.5" drive, CD-ROM, color monitor and keyboard
Color printer with automatic cut sheet feed, other options on request

1) Other ranges on request. 2) Possible by reducing the sample weight. 3) With preheated crucibles and oxygen purification furnace. 4) Balance (serial - RS232) and printer (USB, parallel) are connected to the PC.