

# CHS-500

## Carbon / Hydrogen / Sulfur Determinator

### Specifications

MEASURING RANGES		
<b>Carbon</b> Up to 500mg C resp. up to 100% C at 500 mg sample <sup>1)</sup>	<b>Hydrogen</b> Up to 75mg H resp. up to 15% H at 500 mg sample <sup>1)</sup>	<b>Sulfur</b> Up to 10mg S resp. up to 2% S at 500 mg sample <sup>1)</sup>
<b>Indicating range</b> Up to 100% C <sup>2)</sup>	<b>Indicating range</b> Up to 100% H <sup>2)</sup>	<b>Indicating range</b> Up to 100% S <sup>2)</sup>
SENSITIVITY		
<b>Carbon</b> 5 µg C resp. 10 ppm C at 500 mg sample	<b>Hydrogen</b> 50 µg H resp. 100 ppm H at 500 mg sample	<b>Sulfur</b> 1 µg S resp. 2 ppm S at 500 mg sample
ACCURACY		
<b>Carbon</b> ±50 µg C resp. ±100ppm C at 500 mg sample or ± 1% of C present <sup>1)</sup>	<b>Hydrogen</b> ±100µg H resp. ±200ppm H at 500 mg sample or ± 1% of H present <sup>1)</sup>	<b>Sulfur</b> ±2µg S resp. ±4ppm S at 500 mg sample or ± 1% of S present <sup>1)</sup>

GENERAL SPECIFICATIONS	
<b>Normal sample weight</b> 200-300 mg for coal	<b>Normal analysis time</b> 50 to 180 seconds
<b>Furnace temperature</b> Adjustable up to 1550 °C	<b>Gas required</b> Oxygen 2 to 4 bar (30 to 60 psi) 3l/min
<b>Interfaces</b> Computer - serial <sup>4)</sup>	<b>Chemicals</b> CO <sub>2</sub> trap - sodium hydroxide H <sub>2</sub> O trap - magnesium perchlorate
<b>Analyzer power requirements</b> 230 V AC ±10% 50/60 Hz 0.33 A / 75 W	<b>Furnace power requirements</b> 230 V AC ±10% 50/60 Hz Maximum heat up current 20 A

<b>Weighths</b> Analyzer    Furnace 40kg        36kg	Dimensions    Width    Height        Depth Analyzer: 55cm (21") 52cm (20.5") 60cm (23.5")    Furnace: 33cm (13") 52cm (20.5") 60cm (23.5") <sup>3)</sup>
<b>ACCESSORIES</b>	
Balance: 0.0001g to 60 g ± 0.0001 g	
Computer: PC with HDD, 3.5" drive, CD-ROM, TFT flat screen 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) Allow 15 cm (6") access area behind the furnace. 4) Balance (serial - RS232) and printer (USB, parallel) are connected to the PC.