

ON-900

Oxygen / Nitrogen Determinator

Specifications

MEASURING RANGES			
Oxygen at 1 gram sample		Nitrogen at 1 gram sample	
Low oxygen 0.0 - 300 ppm ¹⁾	High oxygen up to 2% ¹⁾	Low nitrogen 0.0 - 300 ppm ¹⁾	High nitrogen up to 2% ¹⁾
Sensitivity 0.01 ppm oxygen Indicating range 0 - 100% oxygen ²⁾		Sensitivity 0.1 ppm nitrogen Indicating range 0 - 100% nitrogen ²⁾	
ACCURACY			
Low oxygen ± 0.1 ppm or ± 1% of oxygen present		Low nitrogen ± 0.1 ppm or ± 1% of nitrogen present	
High oxygen ± 2 ppm or ± 1% of oxygen present		High nitrogen ± 2 ppm or ± 1% of nitrogen present	
GENERAL SPECIFICATIONS			
Normal sample weight 1g		Normal analysis time 2 minutes	
Detection method Solid state infrared absorption for oxygen Thermal conductivity for nitrogen		Chemicals CO ₂ trap - sodium hydroxide H ₂ O trap - magnesium perchlorate Catalyst - copper oxide	
Gas required Helium ³⁾ at least 99.995% pure ⁴⁾ 2 to 4 bar (30 to 60 psi)		Compressed air 4 to 6 bar (60 to 90 psi)	
Calibration Standard samples and gas dosing device on request		Furnace temperature up to 3000 °C Furnace power 0 to 8 kW	
Interfaces Computer - serial ⁵⁾		Power requirements max 8500 W 50/60 Hz 400VAC ±10% 3 phase + neutral or 230VAC ±10% single phase on request	

Weighs

approximately 135 kg

Dimensions

Width	Height	Depth
55cm (21")	80cm (31.5")	60cm (23.5")

ACCESSORIESBalance: 0.0001g to 60 g \pm 0.0001 g

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) For oxygen analysis only, nitrogen can be used as carrier gas. 4) 99.999% pure for low soxygen analysis. 5) Balance (serial - RS232) and printer (USB, parallel) are connected to the PC.