

# ON-900

## Oxygen / Nitrogen Determinator

### Specifications

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

**ACCESSORIES**Balance: 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.