



IM 2000 / 2800 P

EXHAUST GAS ANALYSER FOR INDUSTRIAL APPLICATIONS

The IM 2000/2800 is a high quality exhaust gas analyser for industrial applications. It can be equipped with up to 6 gas sensors. The basic unit IM 2000O has a oxygen (O₂), a carbon monoxide (CO), a nitric oxide (NO) and a sulfur dioxide (SO₂) sensor. Furthermore it calculates the most important combustion parameters as well.



MEASURED PARAMETERS

■ Oxygen	O ₂ in Vol.%
■ Carbon Monoxide	CO in ppm
■ Nitric Oxide	NO in ppm
■ Sulfur Dioxide	SO ₂ in ppm
■ Nitrogen Dioxide (optional)	NO ₂ in ppm
■ Hydrogen Sulfide (opt.)	H ₂ S in ppm
■ Carbon Dioxide (optional)	CO ₂ in Vol.%
■ Hydrocarbons (opt.)	HC in Vol.%
■ Flue gas temperature	TG in °C
■ Ambient temperature	TA in °C
■ Draft / Pressure	P in hPa
■ Soot (opt.)	Filter paper 0-9

CALCULATED VALUES

■ Carbon Dioxide	CO ₂ in Vol.%
■ Heat losses	qA
■ Excess Air	LAMBDA

FEATURES

- Rugged case with additional compartment
- Condensation trap with integrated filter
- 4-lines, backlit LCD Display for simultaneous display of 6 values
- RS232 interface
- Memory
- Statistics with average value
- Rechargeable battery; up to 6 hours
- Thermal printer
- Diagnostic program
- Gas sampling probe
- Manual
- Power cord



TECHNICAL DATA					
<i>PARAMETER</i>	<i>PRINCIPLE</i>	<i>RESOLUTION</i>	<i>ACCURACY</i>	<i>RANGE</i>	
O₂ Oxygen	Electrochemical	0.1 Vol.%	± 0.2 %	0-20.9 Vol. %	
CO Carbon Monoxide	Electrochemical	1 ppm	Z	0-2000 ppm	
CO Carbon Monoxide	IR	0.01 Vol.%	Z	0-20.00 Vol. %	
NOx Nitric Oxide	Electrochemical	1 ppm	Z	0-2000 ppm	
SO₂ Sulfur Dioxide	Electrochemical	1 ppm	Z	0-4000 ppm	
NO₂ Nitrogen Dioxide	Electrochemical	1 ppm	Z	0-100 ppm	
H₂S Hydrogen Sulfide	Electrochemical	1 ppm	Z	0-100ppm	
HC Hydrocarbons	IR	0.01 Vol.%	Z	0- 5.00 Vol. %	
CO₂ Carbon Dioxide	IR	0.01 Vol.%	Z	0- 25.00 Vol. %	
TG Flue temperature	Thermocouple K	1 K	± 2 %	-20/1200°C	
TG Flue temperature	Thermocouple R	1 K	± 2 %	-20/1500°C	
VL Ambient temperature	Semiconductor	1 K	± 0.5 K	-20/120°C	
P Draft/ Pressure	Solid state	0.01 hPa	± 2 %	-20/+20hPa	
CO₂ Carbon Dioxide	Calculation	0.1 Vol.%	± 0.2 %	0-CO ₂ max	
qA Losses	Calculation	0.1 %	± 0.5 %	0-99.9 %	
λ Excess Air	Calculation	0.01	± 2 %	1-9.99	
Soot	Filter paper				
<p>Fuels: Fuel oil extra light, Natural gas, Town gas, Coalgas, Liquid gas, Hard coal hb 1950, Wood (air dry), Fuel oil light, Fuel oil heavy, Coaltar oil, Liquid gas air ventil., Liquid gas air, Propane ventil., Propane, Butane ventil., Butane, Propane / Butane ventil., Propane / Butane, Biogas ventil., Biogas, Hard coal hb 7450, Hard coal hb 7170, Hard coal hb 2230</p> <p>Gas sampling probe: Sheath length 250mm, hose 2,5m</p> <p>Measuring units: ppm, mg/m³, mg (Bez.O₂)</p> <p>Power supply: 240V/50Hz; 120V/60Hz; rechargeable battery</p> <p>Dimensions: 380 x 185 x 315mm</p> <p>Weight: 7,5 kg</p> <p>Operating temperature: 0-40°C; 10-90% RH non condensing</p>					
IM2000P	O₂, CO, NO, SO₂			Art.-No. 20000	
IM2800P	O₂, CO, NO, SO₂, NO₂			Art.-No. 28000	
IM2800A	O₂, CO (IR-Sensor), NO, CO₂ (IR-Sensor), HC (IR-Sensor)			Art.-No. 28100	

Other measuring ranges / sensors / fuels upon request

Max. 6 sensors

Z = 0-20% of the measuring range ± 1% of the maximum value
 = 21-100% of the measuring range ± 5% of the displayed value

ACCESSORIES	
<ul style="list-style-type: none"> ■ IMData – Data transfer software ■ High temperature measurement up to 1500°C ■ Longer probes, flexible probes ■ Hose extensions ■ Differential pressure measurement ■ Velocity measurement 	<ul style="list-style-type: none"> ■ Gas leak detector CD100A ■ Densitometer to measure the soot spotIM900 ■ IR-thermometer INF155 ■ Refrigerant leak detector RLD10 ■ CO-Detector CO71A / CO91 ■ Hygrometer with IR-thermometer DTH51

IM Environmental Equipment Germany GmbH reserves the right to adopt technical modifications without prior notice.