



IM 1440P

PROFESSIONAL EXHAUST GAS ANALYSIS

„The new IM1440P is the ideal instrument for industrial applications!“

The IM 1440P is a multi-channel exhaust gas analyzer that can be equipped with up to 4 sensors.

Its basic unit has an O2 (Oxygen) and a CO (Carbon Monoxide) sensor. The other two sensors are customer selectable as well as the measuring ranges.

Therefore the IM1440P can be used in almost all industrial applications.



MEASURED PARAMETERS

■ Oxygen	O2 in Vol.%
■ Carbon Monoxide	CO in ppm
■ Nitric Oxide (optional)	NO in ppm
■ Sulfur Dioxide (optional)	SO2 in ppm
■ Nitrogen Dioxide (optional)	NO2 in ppm
■ Hydrogen Sulfide (optional)	H2S in ppm
■ Carbon Dioxide (optional)	CO2 in Vol.%
■ Hydrocarbons (optional)	HC in Vol.%
■ Flue gas temperature	TG in °C
■ Ambient temperature	TA in °C
■ Draft / Pressure	P in hPa
■ Soot	Filter paper 0-9

CALCULATED VALUES

■ Carbon Dioxide	CO2 in Vol.%
■ Heat Losses	qA
■ Combustion Efficiency	ETA
■ Excess Air	LAMBDA

FEATURES

- Rugged case with additional compartment
- Condensation trap with integrated filter
- 4-lines, backlit LCD Display for simultaneous display of 8 values
- USB or RS232 interface
- Memory for 200 measurements
- Rechargeable battery with status indicator; up to 6 hours
- Volume controlled soot measurement
- High speed thermal printer with an easy paper loading system
- CO-bypass valve with purge pump to protect the CO-Sensor
- Diagnostic program
- Gas sampling probe
- Manual, soot filter, soot scale
- 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	Electrochemical	0.001 Vol.%	Z	0-10.000 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 gas temperature	Thermocouple K	1 K	± 2 %	-20/1200°C	
VL Ambient temperature	Semiconductor	1 K	± 0.5 K	-20/120°C	
P Draft / Pressure	Solid state	0.1 hPa	± 2 %	±350 hPa	
CO₂ Carbon Dioxide	Calculation	0.1 Vol.%	± 0.2 %	0-CO ₂ max	
ETA Efficiency	Calculation	0.1 %	± 0.5 %	0-99.9 %	
qA Losses	Calculation	0.1 %	± 0.5 %	0-99.9 %	
λ Excess Air	Calculation	0.01	± 2 %	1-9.99	
Soot	Filter paper				
Fuels: Natural Gas, Oil Light, Town Gas, Coalgas, Liquid Gas, Coal, Wood					
Gas sampling probe: Heated probe handle, sheath length 270mm, hose 3,5m					
Measuring unit: ppm, mg/m ³ , mg/kWh, mg (Bez.O ₂)					
Power supply: 240V/50Hz; 120V/60Hz; rechargeable battery					
Dimensions: 425 x 185 x 290mm					
Weight: 5.8 kg					
Operating temperature: 0-40°C; 10-90% RH, non condensing					
IM1440P	O₂, CO			Art.-No. 14480	
IM1440P3	O₂, CO, add. 3rd sensor			Art.-No. 14490	
IM1400P4	O₂, CO, add. 4th sensor			Art.-No. 14491	

Other measuring ranges / sensors / fuels upon request

Max. 4 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 ■ Longer probes, flexible probes ■ Longer hoses ■ Hose extensions ■ Differential pressure measurement 	<ul style="list-style-type: none"> ■ Gas leak detector CD100A ■ Densitometer to measure the soot spot IM900 ■ 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.