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 Efficicency	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
- 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

IM Env. Equip. Germany GmbH In der Klinge 5/2 D-74078 Heilbronn
Tel: +49-7131-200064 Fax: +49-7131-200066 Email: imgermany@aol.com

TECHNICAL DATA

PARAMETER		PRINCIPLE	RESOLUTION	ACCURACY	RANGE
O_2	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
CO_2	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/m3, mg/kWh, mg (Bez.O2)
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

- IMData – Data transfer software
- Longer probes, flexible probes
- Longer hoses
- Hose extensions
- Differential pressure measurement
- 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.

IM GmbH In der Klinge 5/2 D-74078 Heilbronn
Tel: +49-7131-200064 Fax: +49-7131-200066 Email: imgermany@aol.com