

IM 1440H PROFESSIONAL FLUE GAS ANALYSIS

"The new IM1440H is the ideal instrument for heating technicians!"

The IM1440H is easy to use and still very rugged. It measures not only all the needed parameters but it also

has an automatic pressure test for gas pipes.

Highlights of the new IM1440H:

- Easy to operate
- Automatic pressure test
- High speed thermal printer with an easy paper loading system
- Volume controlled soot measurement
- Draft / Pressure measurement
- Additional differential pressure measurement
- CO-bypass valve with additional purge pump
- Rugged case with additional compartment



ME	MEASURED PARAMETERS				
	Oxygen	O2 in Vol.%			
	Carbon Monoxide	CO in ppm			
	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
- 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

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TECH	ECHNICAL DATA						
PARAMETER		PRINCIPLE	RESOLUTION	ACCURACY	RANGE		
O ₂	Oxygen	Electrochemical	0.1 Vol.%	\pm 0.2 %	0-20.9 Vol. %		
со	Carbon Monoxide	Electrochemical	1 ppm	Z	0-2000 ppm		
NOx	Nitric Oxide	Electrochemical	1 ppm	Z	0-2000 ppm		
SO2	Sulfur Dioxide	Electrochemical	1 ppm	Z	0-4000 ppm		
TG	Flue gas temperature	Thermocouple K	1 K	± 2 %	-20/1200°C		
VL	Ambient temperature	Semiconductor	1 K	\pm 0.5 K	-20/120°C		
P	Draft / Pressure	Solid state	0.1 hPa	± 2 %	±350 hPa		
CO2	Carbon Dioxide	Calculation	0.1 Vol.%	\pm 0.2 %	0-CO ₂ max		
ETA	Efficiency	Calculation	0.1 %	\pm 0.5 %	0-99.9 %		
qΑ	Losses	Calculation	0.1 %	\pm 0.5 %	0-99.9 %		
λ	Excess Air	Calculation	0.01	± 2 %	1-9.99		
	Pressure Test	Solid state	0.1 hPa	± 2 %	±350 hPa		
	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

IM1440H O2, CO Art.-No. 14400

 IM1440H3
 O2, CO, add. 3rd sensor
 Art.-No. 14410

 IM1400H4
 O2, CO, add. 4th sensor
 Art-No. 14420

Other measuring ranges / sensors / fuels upon request

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

Max. 4 sensors

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.

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