

COMBUSTION GAS ANALYZER IMR 1500 P/PS

IMR 1500 P/PS

for the continuous and simultaneous measurement of air temperature, flue gas temperature, O₂, CO (H₂ compensated), losses (qA), efficiency (ETA), draft/ pressure, date and time.

Prepared for an additional NO-Sensor.
Memory for 250 10 digits client numbers, each with 95 independent measurements.
Memory output in any order on printer, PC or display.

Three soot numbers may be entered; the average value of the three soot numbers is calculated.

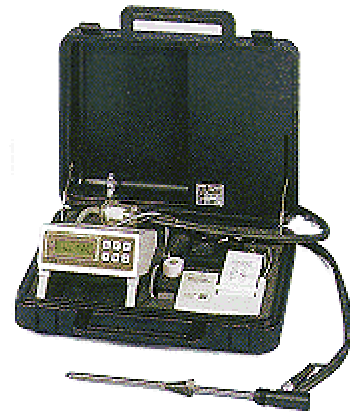
Printer, Interface RS 232 C.



Benefits of the IMR 1500 P / PS:

- small, easy to use, reliable and light; weight 2.5 lb. (1100 g)
- selectable display of the measured variables
- simultaneous display of two measured values
- date and time
- capability to add a NO-Sensor
- error messages if maximum concentrations are exceeded
- battery or AC powered
- memory for 250 client numbers
- enter the soot numbers; the average value is calculated
- 1500 P/PS may also be connected to a PC

The keyboard is easy to use



STANDARD INSTRUMENT

INCLUDES
Gas analyzer in a case
Memory for client numbers
Printer with charger
Gas sampling probe type E, length 0.8 ft., 8 ft flexible tube and connection line
Condensation trap w/ internal filter
User manual
Please ask about other models.

MODEL	PART-NO.
IMR 1500 P O ₂ ,CO,printer	15200
IMR 1500 PS O ₂ ,CO,NO,printer	15300



STANDARD EQUIPMENT

- back-lit LCD display with simultaneous display of two variables
- languages: German, English, French
- selection of ppm, mg, mg (O2)
- 6 fuels are programmed 1 fuel is programmable
- calibration: three minutes automatic zero point calibration
- losses (qA)
- gas sampling probe, 8.2 ft flexible tube and compensating line, tube length 0.8 ft., diameter 0.3", NiCr - Ni
- condensation trap w/ internal filter
- monitoring of the operation time: after 1000 operating hours a service needed message is displayed
- self check: integrated self check program for all functions and parameters, errors or service messages will be displayed
- operating temperature: +50°F / +104°F (+10°C / +40°C)
- storing temperature: -4°F / +122°F (-20°C / +50°C)
- power supply: 230 V/ 50 Hz or 110 V/ 60 Hz battery 6 V
- auto electrical system voltage 12 V

Technical Data

parameter	Measurement principle	Resolution	accuracy	Measurement ranges	
				IMR 1500 P	IMR 1500 PS
O2 Oxygen	Electrochem. Sensor	0.1 Vol. %	± 0.2 %	0-20.9 %	0-20.9 %
CO Carbon monoxide	Electrochem. Sensor	1 ppm,mg,mg(O2)	Z	0-2000 ppm	0-2000 ppm
CO2 Carbon dioxide	Calculated	0.1 Vol. %	± 0.2 %	0-CO2 max.	0-CO2 max.
CO Undiluted	Calculated	1 ppm,mg,mg(O2)	Z	X	X
NO Nitric oxide	Electrochem. Sensor	1 ppm,mg,mg(O2)	Z	-	0-2000 ppm
TA Air temp.	PTC resistance	1 K	± 0.5 K	-4°F / +248°F (-20°C / +120°C)	-4°F +248°F (-20°C / +120 °C)
TG Flue gas temp.	Thermocouple NiCr-Ni	1 K	± 2 %	-4°F / +1472°F (-20°C / +800°C) 2192°F (1200°C)	-4°F / +1472°F (-20°C / +800°C) 2192°F (1200°C)
hPa Chimney /draft	Solid state	0.004" H2O (0.01 hPa)	± 2 %	±8" H2O (± 20 hPa)	± 8" H2O (± 20 hPa)
Lambda / excess air	Calculated	0.01	± 2 %	1.0 - 99.9	1.0 - 99.9
ETA Efficiency	Calculated	0.1 %	± 0.5 %	0 - 99.9 %	0 - 99.9 %
qA Losses	Calculated	0.1 %	±0.5 %	0 - 99.9 %	0 - 99.9 %
TUV-Prüf Nr. By RgG				146	146

Options / Accessories

Pressure difference measurement, max 16" H2O (40 hPa)	O	O
Extension of pressure / draft 16" H2O (40 hPa)	O	O
Memory for 250 10 digits client numbers with 95 independent measurements	X	X
Interface RS 232 C	X	X
Combustion air probe 130 mm, cable length 11.5 ft (3.5 m)	O	O
Special probe for CO measurement 240 mm	O	O
External thermal printer; paper width 2.3" (58 mm)	X	X
Leather case	O	O
Attaché style case	O	O
Dimensions (inch.) w x d x h	6.3 x 8.7 x 3.0	6.3 x 8.7 x 3.0
Weight, lb. (kg)	2.2 (1.0)	2.4(1.1)

Z = 0 - 20% of whole measurement range ± 1% of max. measurement	1 Selection of language on order.
21 - 100% of whole measurement range ± 5% of displ. measurement	2 Other measurement range on request.
X = standard O = option - = not available	3 Dependent of fuel.

Specification changes are made without prior notice.